

122982

Schreiber, David

From: Davis, Minh-Tam
Sent: Thursday, May 20, 2004 12:48 PM
To: Schreiber, David
Subject: FW: Rush search request for 10/048046

A more complete request, with Room number and phone.

Sorry.

Tam

7/1999

-----Original Message-----

From: Davis, Minh-Tam
Sent: Thursday, May 20, 2004 12:46 PM
To: Schreiber, David
Subject: Rush search request for 10/048046

Please perform a Score/length sequence for complement of SEQ ID NO:1, residues that encode amino acids 31-103, or amino acids 303-346, or amino acids 476-641 of SEQ ID NO:2.

No specific minimum hit length is required. Maximum hit length 50

~~Score over length value of 60% or greater.~~

Thank you.

MINH TAM DAVIS
ART UNIT 1642,
ROOM 3A24, MB 3C18
272-0830

102

Search completed: May 20, 2004, 13:18:43
Job time : 5 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

ON nucleic - nucleic search, using sw model

Run on: May 26, 2004, 05:10:28 ; Search time 3707.14 Seconds
(without alignments)
5822.506 Million cell updates/sec

Title: US-10-048-046-1_COPY_1516_2013

Perfect score: 498

Sequence: 1 tgccttcgaaggcca.....gctactggccgttaatgc 498

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 3470272 seqs, 21671516955 residues

Total number of hits satisfying chosen parameters: 1603530

Minimum DB seq length: 0

Maximum DB seq length: 50

Post-processing: Maximum Match 0%
Listing first 45 summaries

Database : GenEmbL:
1: gb_ba:*

2: gb_hrc:*

3: gb_in:*

4: gb_cm:*

5: gb_ov:*

6: gb_pat:*

7: gb_ph:*

8: gb_dl:*

9: gb_pr:*

10: gb_to:*

11: gb_sts:*

12: gb_xy:*

13: gb_un:*

14: gb_yi:*

15: em_db:*

16: em_fn:*

17: em_hum:*

18: em_irn:*

19: em_mu:*

20: em_on:*

21: em_or:*

22: em_ov:*

23: em_pat:*

24: em_ph:*

25: em_dl:*

26: em_2o:*

27: em_bs:*

28: em_un:*

29: em_vr:*

30: em_hrg_hum:*

31: em_hrg_inv:*

32: em_hrg_other:*

33: em_hrg_mus:*

34: em_hrg_pln:*

35: em_hrg_rdl:*

36: em_hrg_mam:*

37: em_hrg_vrc:*

38: em_sy:*

39: em_hego_hum:*

40: em_hego_mus:*

41: em_hego_other:*

GenEmBL:
1: gb_ba:*

2: gb_hrc:*

3: gb_in:*

4: gb_cm:*

5: gb_ov:*

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7: gb_ph:*

8: gb_dl:*

9: gb_pr:*

10: gb_to:*

11: gb_sts:*

12: gb_xy:*

13: gb_un:*

14: gb_yi:*

15: em_db:*

16: em_fn:*

17: em_hum:*

18: em_irn:*

19: em_mu:*

20: em_on:*

21: em_or:*

22: em_ov:*

23: em_pat:*

24: em_ph:*

25: em_dl:*

26: em_2o:*

27: em_bs:*

28: em_un:*

29: em_vr:*

30: em_hrg_hum:*

31: em_hrg_inv:*

32: em_hrg_other:*

33: em_hrg_mus:*

34: em_hrg_pln:*

35: em_hrg_rdl:*

36: em_hrg_mam:*

37: em_hrg_vrc:*

38: em_sy:*

39: em_hego_hum:*

40: em_hego_mus:*

41: em_hego_other:*

score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query %	Match Length	DB ID	Description
1	21	4.2	30	6 I13395	I13395 Sequence 5
2	21	4.2	30	6 I13775	I13775 Sequence 5
3	21	4.2	30	6 I14876	I14876 Sequence 3
4	21	4.2	30	6 I68745	I68745 Sequence 5
5	21	4.2	30	6 I92686	I92686 Sequence 3
6	6	4.2	30	6 AX165879	AX165879 Sequence
7	20.8	4.2	50	6 BD169427	BD169427 Genomes P
8	20.4	4.1	47	6 AR403372	AR403372 Sequence
9	20.2	4.1	50	6 BD068872	BD068872 Enzymatic
10	20.2	4.1	50	6 AX456252	AX456252 Sequence
c	11	19.8	4.0	6 AR078407	AR078407 Sequence
c	12	19.8	4.0	6 AR03397	AR03397 Sequence
c	13	19.8	4.0	6 BD068897	BD068897 Enzymatic
c	14	19.8	4.0	6 AR2277861	AR2277861 Sequence
c	15	19.6	3.9	6 E54330	E54330 Herpesvirus
c	16	19.4	3.9	6 AR206156	AR206156 Sequence
c	17	19	3.8	6 AR116932	AR116932 Sequence
c	18	19	3.8	6 AR116933	AR116933 Sequence
c	19	19	3.8	6 M25737	M25737 Human osteo
c	20	19	3.8	6 T11452	T11452 sequence
c	21	18.8	3.8	6 SB1380	SB1380 T cell anti
c	22	18.6	3.7	6 BD180755	BD180755 Array of
c	23	18.6	3.7	6 AX11814	AX11814 Sequence
c	24	18.6	3.7	6 AX004825	AX004825 Sequence
c	25	18.6	3.7	6 BD074255	BD074255 Method fo
c	26	18.6	3.7	6 BD271168	BD271168 Virus vec
c	27	18.4	3.7	6 BD271169	BD271169 Virus vec
c	28	18.4	3.7	6 AR264600	AR264600 Sequence
c	29	18.4	3.7	6 AR264601	AR264601 Sequence
c	30	18.4	3.7	6 AR057811	AR057811 Sequence
c	31	18.4	3.7	6 AR057818	AR057818 Sequence
c	32	18.4	3.7	6 AR057915	AR057915 Sequence
c	33	18.4	3.7	6 AR115569	AR115569 Sequence
c	34	18.4	3.7	6 AR115576	AR115576 Sequence
c	35	18.4	3.7	6 AR115733	AR115733 Sequence
c	36	18.4	3.7	6 AX634870	AX634870 Sequence
c	37	18.4	3.7	6 AX634877	AX634877 Sequence
c	38	18.4	3.7	6 AX63377	AX63377 Sequence
c	39	18.4	3.7	6 AX335034	AX335034 Sequence
c	40	18.4	3.7	6 AX118482	AX118482 Sequence
c	41	18.4	3.7	6 AR282656	AR282656 Sequence
c	42	18.4	3.7	6 AR282657	AR282657 Sequence
c	43	18.4	3.7	6 AX370679	AX370679 Sequence
c	44	18.4	3.7	6 AX370680	AX370680 Sequence
c	45	18.4	3.7	6 AR289352	AR289352 Sequence

ALIGNMENTS

RESULT 1	I13395	30 bp	DNA	linear	PAT 26-JUL-1995
LOCUS	Sequence 5 from patent US 5436153.				
DEFINITION					
ACCESSION	I13395				
VERSION	I13395.1				
KEYWORDS	GI:910736				
SOURCE	Unknown.				
ORGANISM	Unclassified.				
REFERENCE	1 (bases 1 to 30)				
AUTHORS	Sprecher, C.A., Foster, D.C. and Norris, K.E.				
TITLE	Human amyloid protein precursor homolog and Kunitz-type inhibitor				
JOURNAL	Patent: US 5436153-A 5-25-JUN-1995;				
FEATURES	Location/Qualifiers				

Pred. No. is the number of results predicted by chance to have a

Source 1. .30
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 /mol_type="unassigned DNA"

ORIGIN

Query Match 4.2%; Score 21; DB 6; Length 30;
 Best Local Similarity 82.8%; Pred. No. 1.5e+06;
 Matches 24; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
 Version 1.0.30

Qy 377 GTTACTGCTGTGGCTGGCGAGCTTCGGT 405
 Db 1 GTTGTTGCTGTGCCCTCCGAGCCCTCGT 29

RESULT 2
 I13775 LOCUS Sequence 5 from patent US 5441931.
 DEFINITION 30 bp DNA
 ACCESSION I13775
 VERSION 1.0.30
 SOURCE Unknown.
 ORGANISM Unclassified.
 REFERENCE 1 (bases 1 to 30)
 AUTHORS Sprecher,C.A., Foster,D.C. and Norris,K.E.
 TITLE Human amyloid protein precursor homologue and Kunitz-type
 inhibitors
 JOURNAL Patent: US 5441931-A 5-AUG-1995;
 FEATURES Location/Qualifiers 1. .30
 /organism="unknown"
 /mol_type="unassigned DNA"

ORIGIN

Query Match 4.2%; Score 21; DB 6; Length 30;
 Best Local Similarity 82.8%; Pred. No. 1.5e+06;
 Matches 24; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
 Version 1.0.30

Qy 377 GTTACTGCTGTGGCTGGCGAGCTTCGGT 405
 Db 1 GTTGTTGCTGTGCCCTCCGAGCCCTCGT 29

RESULT 3
 I14876 LOCUS Sequence 3 from patent US 5455338.
 DEFINITION 30 bp DNA
 ACCESSION I14876
 VERSION 1.0.30
 SOURCE Unknown.
 ORGANISM Unclassified.
 REFERENCE 1 (bases 1 to 30)
 AUTHORS Sprecher,C.A., Kisiel,W. and Foster,D.C.
 TITLE DNA encoding novel human kunitz-type inhibitors and methods
 relating thereto
 JOURNAL Patent: US 5455338-A 3-OCT-1995;
 FEATURES Location/Qualifiers 1. .30
 /organism="unknown"
 /mol_type="unassigned DNA"

ORIGIN

Query Match 4.2%; Score 21; DB 6; Length 30;
 Best Local Similarity 82.8%; Pred. No. 1.5e+06;
 Matches 24; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
 Version 1.0.30

Qy 377 GTTACTGCTGTGGCTGGCGAGCTTCGGT 405
 Db 1 GTTGTTGCTGTGCCCTCCGAGCCCTCGT 29

RESULT 4
 I68745 LOCUS Sequence 5 from patent US 5677146.
 DEFINITION 30 bp DNA
 ACCESSION I68745
 VERSION 1.0.30
 SOURCE Unknown.
 ORGANISM Unclassified.
 REFERENCE 1 (bases 1 to 30)
 AUTHORS Sprecher,C.A., Foster,D.C. and Norris,K.E.
 TITLE Human amyloid protein precursor homologue and Kunitz-type inhibitor
 JOURNAL Patent: US 5677146-A 5-14-DEC-1997;
 FEATURES Location/Qualifiers 1. .30
 /organism="unknown"
 /mol_type="unassigned DNA"

ORIGIN

Query Match 4.2%; Score 21; DB 6; Length 30;
 Best Local Similarity 82.8%; Pred. No. 1.5e+06;
 Matches 24; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 377 GTTACTGCTGTGGCTGGCGAGCTTCGGT 405
 Db 1 GTTGTTGCTGTGCCCTCCGAGCCCTCGT 29

RESULT 5
 I92686 LOCUS Sequence 3 from patent US 5728674.
 DEFINITION 30 bp DNA
 ACCESSION I92686
 VERSION 1.0.30
 SOURCE Unknown.
 ORGANISM Unclassified.
 REFERENCE 1 (bases 1 to 30)
 AUTHORS Sprecher,C.A., Kisiel,W. and Foster,D.C.
 TITLE Inhibition of blood coagulation by human-Kunitz-type inhibitors
 JOURNAL Patent: US 5728674-A 3-17-MAR-1998;
 FEATURES Location/Qualifiers 1. .30
 /organism="unknown"
 /mol_type="unassigned DNA"

ORIGIN

Query Match 4.2%; Score 21; DB 6; Length 30;
 Best Local Similarity 82.8%; Pred. No. 1.5e+06;
 Matches 24; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
 Version 1.0.30

Qy 377 GTTACTGCTGTGGCTGGCGAGCTTCGGT 405
 Db 1 GTTGTTGCTGTGCCCTCCGAGCCCTCGT 29

RESULT 6
 AR437164 LOCUS Sequence 3 from patent US 6656746.
 DEFINITION 30 bp DNA
 ACCESSION AR437164
 VERSION 1.0.30
 SOURCE Unknown.
 ORGANISM Unclassified.
 REFERENCE 1 (bases 1 to 30)
 AUTHORS Sprecher,C.A., Kisiel,W. and Foster,D.C.
 TITLE Antibodies to human kunitz-type inhibitor
 JOURNAL Patent: US 6656746-A 3-02-DEC-2003;

FEATURES	Location/Qualifiers
Query Match	4.2%; Score 21; DB 6; Length 30;
Best Local Similarity	82.8%; Pred. No. 1.5e+06;
Matches 24;	Mismatches 5;
	Indels 0; Gaps 0;
ORIGIN	
Qy	377 GTTACTGCTGTGGCTGGCGAGCTTCCTGCGAGCCCTCCGT 405
Db	1 GTTGTTGCTGTGGCTTCCTCCGAGCCCTCCGT 29
RESULT 7	
LOCUS	AX165879 50 bp DNA linear PAT 22-JUN-2001
DEFINITION	Sequence 1074 from Patent WO0138586.
ACCESSION	AX165879
VERSION	AX165879.1 GI:14546708
KEYWORDS	
SOURCE	Homo sapiens (human)
ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE	
AUTHORS	Shimkets, R.A. and Leach, M.
TITLE	Nucleic acids containing single nucleotide polymorphisms and methods of use thereof
JOURNAL	Patent: WO 0138586-A 1074 31-MAY-2001; Curagen Corporation (US)
FEATURES	Location/Qualifiers
Source	1..50 /organism="Homo Sapiens" /mol_type="unassigned DNA"
	/db_xref="taxon:9606"
misc_feature	25..26 /note="Nucleotide deleted between bases 25 and 26
	Accession number c943250166"
variation	26 /note="single nucleotide polymorphism"
ORIGIN	
Query Match	4.2%; Score 20.8; DB 6; Length 50;
Best Local Similarity	70.0%; Pred. No. 1.7e+06;
Matches 28;	Mismatches 0;
	Indels 0; Gaps 0;
DEFINITION	
ACCESSION	BD169427 47 bp DNA linear PAT 17-JAN-2003
VERSION	Genomes participating in rheumatoid arthritis, method of diagnosing the same, method of judging the onset risk thereof, kit for detecting and diagnosing the same, method of treating rheumatoid arthritis and remedies therefor.
KEYWORDS	
SOURCE	
ORGANISM	
RESULT 8	
BD169427	
LOCUS	
DEFINITION	
ACCESSION	BD169427
VERSION	Genomes participating in rheumatoid arthritis, method of diagnosing the same, method of judging the onset risk thereof, kit for detecting and diagnosing the same, method of treating rheumatoid arthritis and remedies therefor.
KEYWORDS	
SOURCE	
ORGANISM	
REFERENCE	
1 (bases 1 to 47)	
AUTHORS	Shiozawa, S. and Konishi, Y.
TITLE	Genomes participating in rheumatoid arthritis, method of diagnosing the same, method of judging the onset risk thereof, kit for detecting and diagnosing the same, method of treating rheumatoid arthritis and remedies therefor.
JOURNAL	
Patent:	WO 0244912-A 4 02-MAY-2002;

JOURNAL Patent: JP 199511003-A 1712 07-AUG-2001;
 RIBOZYME PHARMACEUTICALS INC, ASTON UNIV
 COMMENT Unidentified
 OS Unidentified
 PN JP 201511003-A/1712
 PD 07-AUG-2001
 PP 14-JAN-1998 JP 19985329913
 PR 31-JAN-1997 US 60136476,04-DBC-1997 US
 SAGHIR AKHTAR, PATRICIA FELL, JAMES A MCSWIGGEN PC
 C12N/00, C07K14/71
 CC Strandness: Single;
 CC Topology: Linear;
 CC Enzymatic nucleic acid treatment of diseases or conditions CC
 levels related to
 CC levels of epidermal growth factor receptors
 FH Key Location/Qualifiers
 FT source 1..50
 /organism='Unidentified'.
 FEATURES PT Location/Qualifiers
 source 1..50
 /organism="Unidentified"
 /mol_type="genomic RNA"
 /db_xref="itaxon:3264"
 ORIGIN

Query Match 4.1%; Score 20.2; DB 6; Length 50;
 Best Local Similarity 75.8%; Pred. No. 2.4e+06;
 Matches 25; Conservative 0; Mismatches 8; Indels 0; Gaps 0;
 Qy 268 GCACCCAGGTTGACATGGAAACATCTTG 300
 Db 1 GCACCCAGGTTTACCAAGAAACACCGTTG 33

RESULT 13 AR403397
 LOCUS AR403397
 DEFINITION Sequence 1737 from patent US 6623962.
 ACCESSION AR403397
 VERSION AR403397.1 GI:40150847
 KEYWORDS Unknown.
 SOURCE Unknown.
 ORGANISM Unclassified.

REFERENCE 1 (bases 1 to 50)
 AUTHORS Akhtar,S., Feil,P. and McSwiggen,J.A.
 TITLE Enzymatic nucleic acid treatment of diseases or conditions related to levels of epidermal growth factor receptors
 JOURNAL Patent: US 6623962-A 1737 23-SEP-2003;
 FEATURES Location/Qualifiers
 source 1..50
 /organism="unknown"
 /mol_type="genomic DNA"

ORIGIN

Query Match 4.0%; Score 19.8; DB 6; Length 50;
 Best Local Similarity 77.4%; Pred. No. 3e+06;
 Matches 24; Conservative 0; Mismatches 7; Indels 0; Gaps 0;
 Qy 115 CTGCAGCCTTTCCTGCACCTGFACTGGCT 145
 Db 12 CAGCACCCGTGCAAATGCTGGGCT 42

RESULT 14 BD068897
 LOCUS BD068897
 DEFINITION Enzymatic nucleic acid treatment of diseases or conditions related to levels of epidermal growth factor receptors.
 ACCESSION BD068897
 VERSION BD068897.1 GI:22614500
 KEYWORDS Unknown.
 SOURCE unidentified
 ORGANISM unclassified.

REFERENCE 1 (bases 1 to 50)
 AUTHORS Akhtar,S., Feil,P. and McSwiggen,J.A.
 TITLE Enzymatic nucleic acid treatment of diseases or conditions related to levels of epidermal growth factor receptors
 JOURNAL Patent: JP 2001511003-A/1737.
 FEATURES Location/Qualifiers
 source 1..40
 /organism="synthetic construct"
 /mol_type="unassigned DNA"
 /db_xref="itaxon:32630"
 /note="An Oligonucleotide"

ORIGIN

Query Match 4.0%; Score 19.8; DB 6; Length 40;
 Best Local Similarity 69.2%; Pred. No. 3e+06;
 Matches 27; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

Qy 372 TCTGTGTACTGCTGCTGCCCTGGCTCGTGACT 410
 Db 39 TTGGTGTGAAAGTATGATCTGGCAGTTGGCTGAGCT 1

RESULT 12 AR078407
 LOCUS AR078407
 DEFINITION Sequence 26 from patent US 5992636.
 ACCESSION AR078407
 VERSION AR078407.1 GI:10005153

COMMENT OS Unidentified
 PN JP 2001511003-A/1737
 PD 07-AUG-2001

PF 14-JAN-1998 JP 1998532913
 PR 31-JAN-1997 US 60/036476,04-DBC-1997 US 08/985162 PI
 SAGHIR AKHTAR, PATRICIA FELL, JAMES A MCSWIGGEN PC
 C12N9/00, C07K14/71

Strandedness: Single;
 CC Topology: Linear;
 CC Enzymatic nucleic acid treatment of diseases or conditions CC
 CC related to levels of epidermal growth factor receptors
 PH Key Location/Qualifiers
 FT Source 1..50
 FT /organism=Unidentified,
 Location/Qualifiers
 FEATURES source 1..50
 /organism="unidentified"
 /mol_type="genomic RNA"
 /db_xref="taxon:32644"

ORIGIN

Query Match	4.0%	Score 19 8;	DB 6;	Length 50;
Best Local Similarity	63.8%	Pred. No. 3e+06;		
Matches	30;	Conservative 0;	Mismatches 17;	Indels 0;
			Gaps 0;	

Qy 224 TGAAACACAAAGCTTACGAGTCAGATCTGGAAATTACCTGCA 270
 Db 4 TGAAAGAAACACCAGAGAACACAGTTGTGATTAACCTGTA 50

RESULT 15

AR277861/C AR277861 48 bp DNA linear PAT 10-APR-2003
 LOCUS Sequence 20 from patent US 6511603 .
 DEFINITION
 ACCESSION AR277861
 VERSION AR277861.1 GI:29711785
 KEYWORDS
 SOURCE Unknown.
 ORGANISM Unclassified.
 REFERENCE 1 (bases 1 to 48)
 AUTHORS Church,G.M. and Mitra,R.D.
 TITLE Replica amplification of nucleic acid arrays
 JOURNAL Patent: US 6511603-A 20 28-JAN-2003;
 FEATURES Location/Qualifiers
 SOURCE 1..48
 /organism="unknown"
 /mol_type="genomic DNA"

ORIGIN

Query Match	3.9%	Score 19.6;	DB 6;	Length 48;
Best Local Similarity	73.5%	Pred. No. 3.4e+06;		
Matches	25;	Conservative 0;	Mismatches 9;	Indels 0;
			Gaps 0;	

Qy 36 CTGCTTCCAGGCCATGCCGAGCGGAG 69
 Db 43 CTCCCTCAAGCTTCCGCCAGAGGAAGCGGAG 10

Search completed: May 26, 2004, 07:39:20
 Job time : 3709.14 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model
Run on: May 26, 2004, 05:01:38 ; Search time 420.572 seconds

Total number of hits satisfying chosen parameters: 3185356
Minimum DB seq length: 0
Maximum DB seq length: 50

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database : N_Genesegn29Jan04;*

1: Genesegn1980s;*

2: Genesegn1980s;*

3: Genesegn2000s;*

4: Genesegn2001as;*

5: Genesegn2001bs;*

6: Genesegn2002s;*

7: Genesegn2003as;*

8: Genesegn2003bs;*

9: Genesegn2003cb;*

10: Genesegn2004s;*

Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query	Match Length	DB ID	Description
C 1	21.6	4.3	31	AAX06374	Aax06374 Human bia
C 2	21.2	4.3	50	AAV0790	Aav0790 Primer 95
C 3	21.2	4.3	50	AAV31045	Aav31045 Expressio
C 4	21	4.2	30	AA066249	Aaq6649 Sequence
C 5	21	4.2	30	AA0940470	Aaq94070 Human Kun
C 6	21	4.2	50	AA132458	Aal132458 Human SNP
C 7	21	4.2	50	AA132043	Aal132043 Human SNP
C 8	20.8	4.2	41	ABV74248	Abv74248 Human mac
C 9	20.8	4.2	48	ACCE62681	Acc62681 Human ant
C 10	20.8	4.2	48	ACCE62643	Acc62643 Human ant
C 11	20.8	4.2	50	ABU01083	Abu01083 Human SNP
C 12	20.4	4.1	50	AAU47188	Aau47188 Human rhe
C 13	20.2	4.1	50	AAV798932	Aav798932 Human EGP
C 14	20	4.0	50	ABP00921	Abp00921 Human leu
C 15	19.8	4.0	40	ABL9142	Ab19142 Green/Yed
C 16	19.8	4.0	42	AAZ228188	Aaz228188 Human bet
C 17	19.8	4.0	42	AAZ99171	Aaz99171 Human pep
C 18	19.8	4.0	50	AAV78957	Aav78957 Human EGP
C 19	19.8	4.0	50	AAU34581	Aal34581 Human SNP
C 20	19.8	4.0	50	AAU34023	Aal34023 Human SNP
C 21	19.6	3.9	41	ABA0129	Aba0129 Human syn
C 22	19.6	3.9	48	AAU99461	Aau99461 Primer Pu
C 23	19.6	3.9	48	AAU12549	Aau12549 PCR prime

OS Homo sapiens.

XX XX

ALIGNMENTS

RESULT 1
AAX06374/c/standard; DNA; 31 BP.

ID AAX06374 standard; DNA; 31 BP.
XX
AC AAX06374;
XX DT 31-MAR-1999 (first entry)
XX DE Human biallelic polymorphic DNA fragment SGC33319.
XX KW Polymorphism; biallelic; Paternity testing; forensic; genetic mapping;
KW phenotypic typing; medicament; disease; marker; human; ss.

XX Homo sapiens.

XX XX

</

CC products and methods can be used for analysing polymorphic sites in
 CC individuals for testing for the presence of a disease phenotype or in
 CC forensics; paternity testing or genetic mapping of phenotypic traits;
 CC they can also be used for the production of polypeptides expressed by
 CC variant genes and for the production of transgenic animals. The nucleic
 CC acid segments can also be used in the manufacture of medicaments for the
 CC treatment or prophylaxis of diseases

XX Sequence 31 BP; 5 A; 8 C; 8 G; 9 T; 0 U; 1 Other;
 SQ Query Match 4.3%; Score 21.6; DB 2; Length 31;
 Best Local Similarity 80.0%; Pred. No. 2.5e+04;
 Matches 24; Conservative 1; Mismatches 5; Indels 0; Gaps 0;
 Db 30 ACATCGCTACGAGKCTGGAATCCTGGAGA 1

RESULT 2

AAV04790/C
 ID AAV04790 standard; cDNA; 50 BP.
 XX

AC AAV04790;

DT 10-JUN-1998 (first entry)

XX Primer 95-1414 for green fluorescent protein.

KW PCR primer; green fluorescent protein; GFP; recombinant fungal host cell;
 KW cryptic splice site; hormone production; enzyme production;
 KW receptor production; reporter production; 88.
 XX Synthetic.

OS Aequorea victoria.

XX PN WO9749821-A1.

XX PD 31-DEC-1997.

XX PR 20-JUN-1997; 97WO-US010630.

XX PR 27-JUN-1996; 96US-0020930P.

XX PA (NOVO) NOVONORDISK BIOTECH INC.

XX PI Thompson S;

XX DR WPI; 1998-376791/32.

XX PA (NOVO) NOVONORDISK BIOTECH INC.

XX PT DNA for transforming filamentous fungi - with cryptic splice sites

XX modified to prevent incorrect splicing in fungi.

XX Example 1; Col 14; 27pp; English.

XX The present sequence represents a primer used in the construction of the
 CC expression vector pShTh49 in an example from the present invention. The
 CC present invention describes a nucleic acid sequence with at least one
 CC modified cryptic splice site, where the nucleic acid sequence encodes a
 CC biologically active polypeptide and the cryptic splice site is modified
 CC by (a) replacing at least one cryptic consensus sequence with a non-
 CC consensus sequence; and/or (b) replacing a first region of a cryptic
 CC intron with a second region that has a G+C content of 40-70%. The fungal
 CC host cells may be used to produce biologically active polypeptides,
 CC preferably hormones, enzymes, receptors or reporters. Problems of
 CC incorrect splicing of precursor mRNA in filamentous fungal cells can be
 CC overcome

XX Sequence 50 BP; 8 A; 13 C; 18 G; 11 T; 0 U; 0 Other;
 SQ Query Match 4.3%; Score 21.2; DB 2; Length 50;
 Best Local Similarity 69.0%; Pred. No. 3.8e+04;
 Matches 29; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

Db 396 CAGTTCCGTGAGCTGACCTATCAGTATCGGCAAGACATTCC 437
 50 CGGAGCGCTTCAGTCGGCACATTTCAGCAAGACACTCC 9

CC biologically inactive polypeptides, or the production of several
 CC populations of polypeptide products with varying biological activity
 XX Sequence 50 BP; 8 A; 13 C; 18 G; 11 T; 0 U; 0 Other;
 SQ Query Match 4.3%; Score 21.2; DB 2; Length 50;
 Best Local Similarity 69.0%; Pred. No. 3.8e+04;
 Matches 29; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

Db AAV31045 standard; cDNA; 50 BP.
 XX AC AAV31045;
 XX DT 17-AUG-1998 (first entry)
 XX DE Expression vector pShTh49 construction primer 95-1414.
 XX XX Fungal host cell; cryptic splice site; filamentous fungus; primer;
 KW splicing; biologically active; construction; expression vector; ss.
 XX Synthetic.
 OS Aequorea victoria.
 XX PN US5170371-A.
 XX PD 23-JUN-1998.
 XX PF 27-JUN-1996; 96US-00672158.
 XX PR 27-JUN-1996; 96US-00672158.
 XX PA (NOVO) NOVONORDISK BIOTECH INC.
 XX PI Thompson S;
 XX DR WPI; 1998-376791/32.
 XX PA (NOVO) NOVONORDISK BIOTECH INC.

XX PS Example 1; Col 14; 27pp; English.

XX The present sequence represents a primer used in the construction of the

CC expression vector pShTh49 in an example from the present invention. The
 CC present invention describes a nucleic acid sequence with at least one
 CC modified cryptic splice site, where the nucleic acid sequence encodes a
 CC biologically active polypeptide and the cryptic splice site is modified
 CC by (a) replacing at least one cryptic consensus sequence with a non-
 CC consensus sequence; and/or (b) replacing a first region of a cryptic
 CC intron with a second region that has a G+C content of 40-70%. The fungal
 CC host cells may be used to produce biologically active polypeptides,
 CC preferably hormones, enzymes, receptors or reporters. Problems of
 CC incorrect splicing of precursor mRNA in filamentous fungal cells can be
 CC overcome

XX Sequence 50 BP; 8 A; 13 C; 18 G; 11 T; 0 U; 0 Other;

SQ Query Match 4.3%; Score 21.2; DB 2; Length 50;

Best Local Similarity 69.0%; Pred. No. 3.8e+04;
 Matches 29; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

Db 396 CAGTTCCGTGAGCTGACCTATCAGTATCGGCAAGACATTCC 437
 50 CGGAGCGCTTCAGTCGGCACATTTCAGCAAGACACTCC 9

PI	Shimkets RA,	Leach M;
XX	WPI; 2001-465210/50.	
DR		
XX	Polymorphic nucleic acid	
PT	oncogenes and histones an	
PT	autoimmune diseases an	
XX		
Claim 1:	Page 3019, 41	
PS		
XX		
CC	The present invention	
CC	variations of proteins r	
CC	apoptosis related prot	
CC	histones, kinases, col	
CC	proteins, cytochromes,	
CC	protein coupled recept	
CC	such oligonucleotide.	
CC	they may be used in th	
CC	associated with inappr	
CC	Disorders that may be	
CC	multifactorial disease	
CC	diseases (e.g. rheumat	
CC	systemic lupus erythro	
CC	(e.g. cancers of the b	
CC	leukaemia), diseases o	
CC	organisms	
XX		
SQ	Sequence 50 BP; 12 A;	
	Query Match	
	Best Local Similarity 7	
	Matches 27; Conservati	
Qy	125 TCTGCCACCTGTA	
Db	13 TCTGCCACCTGAG	
RESULT 7		
ID	AAL32043 standard; DNA	
XX		
AC	AAL32043;	
XX		
DT	24-JAN-2002 (First en	
XX		
DE	Human SNP oligonucleot	
XX		
KW	Immunosuppressive; immu	
KW	neoprotective; antiimm	
KW	amyloid protein; angio	
KW	cyclin; polymerase; on	
KW	complement related pro	
KW	interleukin; G-protein	
KW	multifactorial disease;	
KW	nervous system disease	
XX		
OS	Homo sapiens.	
XX		
PN	WC200147944-A2.	
XX		
PD	05-JUL-2001.	
XX		
PF	28-DEC-2000; 2000WO-US	
XX		
PR	28-DEC-1999; 99US-01	
PR	27-DEC-2000; 2000US-00	
XX		
PA	(CURA-) CURAGEN CORP.	
XX		
PI	Shimkets RA, Leach M;	
XX		
DR	WPI; 2001-465210/50.	

polypeptide in treating various diseases, such as malignant tumours, haemopathy, developmental disorder, human immunodeficiency virus (HIV) infection, immunological diseases and various inflammations. The present sequence is that of a human macro protein 0986-9-24 probe, useful in examples of the invention.

XX Sequence 41 BP; 8 A; 9 C; 13 G; 11 T; 0 U; 0 Other;
 XX Query Match 4.2%; Score 20.8; DB 6; Length 41;
 XX Best Local Similarity 70.0%; Pred. No. 4.6e-04;
 XX Matches 28; Conservative 0; Mismatches 12; Indels 0; Gaps 0;
 Qy 420 GTATCGCAGACATTCCTGGTCCAGTGGCACTGGCC 459
 Db 41 GCATGGCAACATCCATCCCTAGGGTTCAGTGCCC 2

RESULT 9
 ACC6281
 ID ACC6281 standard; DNA; 48 BP.
 XX AC ACC6281;
 XX DT 30-JUN-2003 (first entry)
 DE Human antibody heavy chain framework 1 primer TMX24VH1b SEQ ID NO:64.
 XX Engineered template; single primer amplification; antibody library;
 KW nucleic acid amplification; primer; ss.
 KW Homo sapiens.
 KW Synthetic.
 OS WO2003025202-A2.
 XX PN WO2003025202-A2.
 XX PD 27-MAR-2003.
 XX PR 19-SEP-2002; 2002WO-US029889.
 XX PA (ALEX-) ALEXION PHARM INC.
 XX PI Bowdish KS, Frederickson S, Maruyama T, Lin Y, Renshaw M;
 PA DR WPI; 2003-313359/30.
 XX PT Amplifying nucleic acid by contacting engineered nucleic acid strand at one end and sequence complementary to predetermined sequence at other end, with primer having predetermined sequence.
 XX PS Example 2; Page 23; 68PP; English.

XX The present invention describes a method (M1) for amplifying a nucleic acid strand. M1 comprises providing an engineered nucleic acid strand (S) having a predetermined sequence at one end and a sequence complementary to the predetermined sequence at the other, and contacting (S) with a primer having the predetermined sequence at one end and a sequence complementary to the predetermined sequence of a polymer of polymers and nucleotides under conditions suitable for polymerisation of the polymer. Also described is an engineered nucleic acid strand (I) having a predetermined sequence at the other end, M1 is useful for amplifying a nucleic acid. M1 can be used for producing an antibody library. M1 is useful for preparing amplified products that can be ligated into a suitable expression vector, where the vector can be used to transform an appropriate host organism to produce the polypeptide or protein encoded by the target sequence. M1 is useful to amplify a family of related sequences to build a complex library such as, for example an antibody library. M1 is useful not only for producing large amounts of one target nucleic acid sequence, but also for amplifying simultaneously more than one different target nucleic acid molecules. ACC62635 to ACC62753 and ABR54841 to ABR54998 represent sequence used in the exemplification of the present invention.

CC ABR54998 represent sequence used in the exemplification of the present invention.
 CC Sequence 48 BP; 8 A; 10 C; 20 G; 10 T; 0 U; 0 Other;
 XX SQ Query Match 4.2%; Score 20.8; DB 7; Length 48;
 CC Best Local Similarity 70.0%; Pred. No. 4.8e+04;
 CC Matches 28; Conservative 0; Mismatches 12; Indels 0; Gaps 0;
 Qy 50 TGCCGAGCGAGAGGCCAGGGAGGAGAACCGCGCTGT 89
 Db 5 TGCGCGTGGAGAGGGTGTGAGGAGTCAOGCTGT 44
 RESULT 10
 ACC62643
 ID ACC62643 standard; DNA; 48 BP.
 XX AC ACC62643;
 XX DT 30-JUN-2003 (first entry)
 DE Human antibody heavy chain VH framework 1 primer TMX24VH1b SEQ ID NO:26.
 XX Engineered template; single primer amplification; antibody library;
 KW nucleic acid amplification; primer; ss.
 XX OS Homo sapiens.
 KW Synthetic.
 OS WO2003025202-A2.
 XX PN WO2003025202-A2.
 XX PD 27-MAR-2003.
 XX PR 19-SEP-2002; 2002WO-US029889.
 XX PA (ALEX-) ALEXION PHARM INC.
 XX PI Bowdish KS, Frederickson S, Maruyama T, Lin Y, Renshaw M;
 PA DR WPI; 2003-313359/30.
 XX PT Amplifying nucleic acid by contacting engineered nucleic acid strand at one end and sequence complementary to predetermined sequence at other end, with primer having predetermined sequence.
 XX PS Example 2; Page 23; 68PP; English.
 CC The present invention describes a method (M1) for amplifying a nucleic acid strand. M1 comprises providing an engineered nucleic acid strand (S) having a predetermined sequence at one end and a sequence complementary to the predetermined sequence at the other, and contacting (S) with a primer having the predetermined sequence at one end and a sequence complementary to the predetermined sequence of a polymer of polymers and nucleotides under conditions suitable for polymerisation of the polymer. Also described is an engineered nucleic acid strand (I) having a predetermined sequence at the other end, M1 is useful for amplifying a nucleic acid. M1 can be used for producing an antibody library. M1 is useful for preparing amplified products that can be ligated into a suitable expression vector, where the vector can be used to transform an appropriate host organism to produce the polypeptide or protein encoded by the target sequence. M1 is useful to amplify a family of related sequences to build a complex library such as, for example an antibody library. M1 is useful not only for producing large amounts of one target nucleic acid sequence, but also for amplifying simultaneously more than one different target nucleic acid molecules. ACC62635 to ACC62753 and ABR54841 to ABR54998 represent sequence used in the exemplification of the present invention.

SQ	Sequence 48 BP; 8 A; 10 C; 20 G; 10 T; 0 U; 0 Other;	Db	3 GTGGCCCTAACACCCAGTGTGCTGCGGAGGGCTGTA 42
Query Match	4.2%; Score 20.8; DB 7; Length 48;		
Best Local Similarity	70.0%;	Pred. No.	4.8e+04;
Matches	28; Conservative	0; Mismatches	12;
QY	50 TGCCCCGACGGGAGGCCGAGCCGGAGAA GGACCCGGGT 89	Indels	0; Gaps 0;
Db	5 TGCCCCGTTGGAGAGGGTGTCGAGA GGTCAGGT 44		
RESULT 11			
ABL01083			
ID	ABL01083 standard; DNA; 50 BP.	ID	AAL47188 standard; DNA; 47 BP.
XX		XX	AAL47188;
AC	ABL01083;	AC	
XX		XX	
DT	05-MAR-2002 (first entry)	DT	22-AUG-2002 (first entry)
XX	Human SNP involving a gap oligonucleotide SEQ ID NO:1074.	XX	Human rheumatoid arthritis associated DR3 gene related oligo #1.
DE		DE	
XX		XX	
KW	single nucleotide polymorphism; SNP; polymorphism; cytostatic;	KW	Human; DR3; rheumatoid arthritis; antirheumatic; antiarthritic;
KW	immunosuppressive; antiinflammatory; neuroprotective; antimicrobial;	KW	gene therapy; PCR; primer; ss.
KW	autoimmune disease; inflammation; cancer; nervous system disease;	KW	
KW	infection; polymorphic protein; ds.	KW	Unidentified.
OS	Homo sapiens.	OS	
PN	WO200138586-A2.	PN	
XX		XX	WO200231912-A1.
PD	31-MAY-2001.	PD	02-MAY-2002.
XX		XX	
PP	22-NOV-2000; 2000WO-US032311.	PP	24-OCT-2001; 2001IWO-JP009313.
XX		XX	
PR	24-NOV-1999; 99US-0167383P.	PR	24-OCT-2000; 2000JJP-00324296.
XX		XX	
PA	(CURAGEN CORP.	PA	27-MAR-2001; 2001JJP-00090546.
XX		XX	
PI	Shimkets RA, Leach M;	PI	30-MAR-2001; 2001JJP-00099930.
XX		XX	
DR	WPI; 2002-417132/44.	DR	
XX		XX	
PS	Example 4; Page 25; 84pp; Japanese.	PS	
SQ	Sequence 47 BP; 5 A; 15 C; 16 G; 11 T; 0 U; 0 Other;	SQ	
XX	The present invention relates to the human DR3 gene, which is associated with rheumatoid arthritis. Certain mutations in the gene can be linked to the disease. The sequences can be used to evaluate disease onset and its possibility and to provide therapy and remedies. The present sequence is an oligonucleotide described in the exemplification of the invention	XX	
CC		CC	
Query Match	4.1%; Score 20.4; DB 6; Length 47;	Query Match	4.1%; Score 20.4; DB 6; Length 47;
Best Local Similarity	65.2%;	Best Local Similarity	65.1%;
Matches	Pred. No. 6.1e+04;	Matches	0; Mismatches 30; Conservative 0;
QY	27 GTGCACCTGCTGTTCAAGCCATGCCGCGACGGAAAGCGC 72	Indels	0; Gaps 0;
Db	2 GGTCACCATCCGTTCTGCCAGGGCTGGTGTGAGTGC 47	AC	
XX		XX	
RESULT 13			
ABL0010 to ABL01104 represent human nucleic acid oligonucleotides comprising one or more single nucleotide polymorphisms (SNPs). ABB56531 to ABB6903 represent human peptides encoded by some of the SNP oligonucleotides. The sequences from the present invention can have immunosuppressive, Cytostatic, antiinflammatory, neuroprotective and antimicrobial activities. Nucleic acids, polypeptides, oligonucleotides and antibodies from the present invention can be used for treating a subject suffering from, at risk for, or suspected of, suffering from a pathology ascribed to the presence of a sequence polymorphism. The pathology may be autoimmune diseases, inflammation, cancer, diseases of the nervous system, and infection by pathogenic microorganisms. The SNPs are also useful for determining which forms of a characterised polymorphism are present in individuals. The antibodies may be used in the detection, quantitation and/or cellular or tissue localisation of a polymorphic protein (e.g., for use in measuring levels of the polymorphic protein within appropriate physiological samples)	XX		
XX		XX	AAV98932
Sequence 50 BP; 8 A; 14 C; 18 G; 10 T; 0 U; 0 Other;		XX	AAV98932 standard; RNA; 50 BP.
Query Match	4.2%; Score 20.8; DB 5; Length 50;	DE	
Best Local Similarity	70.0%;	XX	
Matches	Pred. No. 4.9e+04;	KW	
QY	454 GTGGCCGAAACATCCGCTCTGACTGTGCTGGCGTA 493	CC	
Db		KW	Human; epidermal growth factor receptor; EGFR; target sequence; hammerhead ribozyme; hairpin ribozyme; inhibition; cell proliferation; cancer; genetic drift; detection; mutation; ss.
XX		KW	
XX		XX	
DT	17-MAR-1999 (first entry)	DT	
XX		XX	Human EGF-R hairpin ribozyme nucleotide position 2768.

OS Synthetic.
 OS Homo sapiens.
 XX WO9833893-A2.
 PN 06-AUG-1998.
 XX 14-JAN-1998; 98WO-US0000730.
 XX 31-JAN-1997; 97US-0036476P.
 PR 04-DEC-1997; 97US-00985162.
 XX (RIBO-) RIBOZYME PHARM INC.
 PA (UTAS-) UNIV ASTON.
 XX Akhtar S, Fell P, McSwiggen JA;
 XX DR 1998-437449/37.
 Enzymatic nucleic acids - which cleave RNA derived from an epidermal growth factor receptor, useful for inhibiting cell proliferation and for treating cancers.
 XX Claim 7; Page 88; 109pp; English.
 The present invention describes enzymatic nucleic acid molecules (NAMs) which specifically cleave RNA derived from an epidermal growth factor receptor (EGF-R) gene. AAV97221 to AAV98043 and AAV98979 to AAV99090 represent specifically claimed target sequence from human EGF-R. AAV98044 to AAV8866 and AAV98867 to V8878 represent hammerhead ribozymes and hairpin ribozymes respectively for human EGF-R. The NAMs are useful for cleaving EGF-R RNA in the treatment of a condition associated with EGF-R expression levels e.g. to inhibit cell proliferation in the prevention or treatment of cancers. The NAMs can also be used as diagnostic tools to examine genetic drift and mutations within diseased cells or to detect the presence of EGF-R RNA in a cell
 XX Sequence 50 BP; 16 A; 12 C; 11 G; 0 T; 11 U; 0 Other;
 Query Match 4.1%; Score 20.2; DB 2; Length 50;
 Best Local Similarity 60.6%; Pred. No. 7.1e-04;
 Matches 20; Conservative 5; Mismatches 8; Indels 0; Gaps 0;
 Qy 268 GCAACCAGGGTTGAGATGGAAAAACATGTG 300
 Db 1 GCACCCAGAGGUUACAGAGAACACGTG 33
 XX RESULT 14 ABZ00921/C ID ABZ00921 standard; DNA; 50 BP.
 AC ABZ00921;
 XX DT 09-JAN-2003 (First entry)
 Human leukocyte gene expression profiling probe SEQ ID NO 912.
 XX T7; leukocyte; gene expression profiling; allograft rejection;
 KW atherosclerosis; congestive heart failure; systemic lupus erythematosus;
 KW rheumatoid arthritis; osteoarthritis; cytomegalovirus; infection; Probe;
 KW ss.
 OS Homo sapiens.
 XX WO200257414-A2.
 PN XX 25-JUL-2002.
 PD XX 22-OCT-2001; 2001WO-US047856.
 PR XX 20-OCT-2000; 2000US-0241994P.
 PR 08-JUN-2001; 2001US-0296734P.
 XX (BIOC-) BIocardia INC.
 PA XX PI Wohlgemuth J, Fry K, Marcuk G, Altman P, Prentice J, Phillips J;
 PI Ly N, Woodward R, Quertemous T, Johnson F;
 XX DR WPI; 2002-636525/68.
 PT New system for leukocyte expression profiling diagnosing a disease, or monitoring (the rate of) progression of a disease, e.g. atherosclerosis or congestive heart failure, comprises diagnostic oligonucleotides.
 XX
 XX
 PS Claim 1; Page 353; OPP; English.
 XX
 CC The invention relates to a system for detecting gene expression, which comprises one or two isolated DNA molecules that detect expression of a gene, where the gene corresponds to any of 8143 oligonucleotides (ABZ00010-ABZ08112) each having 50 base pairs (bp). The system is useful for leukocyte expression profiling. It is particularly useful for diagnosing a disease, monitoring (rate of) progression of a patient, predicting therapeutic outcome, determining prognosis for a patient, predicting disease complications in an individual or monitoring response to treatment in an individual. The diseases include cardiac allograft rejection, kidney allograft rejection, liver allograft rejection, atherosclerosis, congestive heart failure, systemic lupus erythematosus, rheumatoid arthritis, osteoarthritis or cytomegalovirus infection
 CC Sequence 50 BP; 11 A; 16 C; 7 G; 16 T; 0 U; 0 Other;
 XX SQ Query Match 4.0%; Score 20; DB 6; Length 50;
 Best Local Similarity 72.2%; Pred. No. 8.1e+04;
 Matches 26; Conservative 0; Mismatches 10; Indels 0; Gaps 0;
 Qy 198 GGGTGAAGTAGTGCTGGACGGCTGCTGAACACAA 233
 Db 41 GGGCAGAGTGCTGATGACTGCCAACATAA 6
 XX RESULT 15 ABZ099142/C ID ABZ099142 standard; DNA; 40 BP.
 AC ABZ099142;
 XX DT 28-JUN-2002 (first entry)
 XX DE Green/red click beetle luciferase preparing oligo SEQ ID NO:110.
 XX KW Luciferase; synthetic nucleic acid; transcriptional characteristic; transcription; codon usage; PCR; primer; ss.
 OS Coleoptera.
 OS Synthetic.
 PN WO200216944-A2.
 XX
 XX PR 24-AUG-2001; 2001WO-US026566.
 PR 24-AUG-2000; 2000US-00645706.
 PA (PROM-) PROMEGA CORP.
 XX PI Wood KV, Wood MG, Zhuang Y, Paguio A;
 XX DR WPI; 2002-304140/34.
 XX
 PT Preparing a synthetic nucleic acid molecule with reduced inappropriate transcriptional characteristics when expressed in a cell, for e.g. making fusion Proteins, by altering a wild type or another synthetic nucleic acid sequence.
 XX

PS Example 1; Fig 6; 294pp; English.

XX
CC The present invention relates to the preparation of synthetic nucleic
CC acid molecules which have altered transcriptional regulatory sequences
CC compared to the wild-type. These sequences are then transcribed with less
CC frequency compared to the wild-type. In particular, the invention relates
CC to altered luciferase sequences. This can be used to detect weak promoter
CC activity, to express fusion proteins, to detect and/or measure levels of
CC gene expression, subcellular localisation or targeting, in life science
CC research, agrogenetics, gene therapy, development science and
CC pharmaceutical development. The present sequence is an oligonucleotide
CC described in the exemplification of the invention

SQ Sequence 40 BP; 13 A; 12 C; 7 G; 8 T; 0 U; 0 Other;

Query Match 4.0%; Score 19.8; DB 6; Length 40;
Best Local Similarity 69.2%; Pred. No. 8.5e+04;

Matches 27; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

Qy 3712 TCNGTGTTACTGTTGGCTCGCAAGTTCGGTAGCT 410

Db 39 TTTGGTTACAAAGTATGATCTAGCACCTGGGTAGCT 1

Search completed: MAY 26, 2004, 05:53:55
Job time : 429.572 secs

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OM nucleic - nucleic search, using sw model

Run on: May 26, 2004, 05:16:49 ; Search time 96:1979 Seconds
 (without alignments)

Title: US-10-048-046-1_COPY_1516_2013

Perfect score: 498 Sequence: 1 tgccctctgaaaggcca.....gctactggggccgttaactgc 498

Scoring table: IDENTITY_NUC Gapext 1.0

Searched: 682709 seqs, 27747546 residues

Total number of hits satisfying chosen parameters: 839752

Minimum DB seq length: 0 Maximum DB seq length: 50

Post-processing: Minimum Match 0% Listing First 45 summaries

Database : Issued Patents NA:*

- 1: /cggn2_6/ptodata/2/ina/5A_COMBO.seq:*
- 2: /cggn2_6/ptodata/2/ina/5B_COMBO.seq:*
- 3: /cggn2_6/ptodata/2/ina/6A_COMBO.seq:*
- 4: /cggn2_6/ptodata/2/ina/6B_COMBO.seq:*
- 5: /cggn2_6/ptodata/2/ina/PCUTS_COMBO.seq:*
- 6: /cggn2_6/ptodata/2/ina/backtles1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

ALIGNMENTS

RESULT 1
 US-08-672-158A-10/c ; Sequence 10, Application US/08672158A ; Patent No. 5770371 ; General Information ; Applicant: Sheryl Thompson ; Title of Invention: Modification of Cryptic Splice Sites In ; Number of Sequences: 21 ; Correspondence Address: ; Addressee: No. 57703710 No. 5770371disk of No. 5770371th America, Inc. ; Street: 405 Lexington Avenue, 64th Floor ; City: New York ; State: New York ; Country: USA ; ZIP: 10174-6401 ; Computer Readable Form: ; Medium Type: Floppy disk ; Computer: IBM PC compatible ; Operating System: PC-DOS/MS-DOS ; Current Application Data: ; Filing Date: 27-JUN-1996 ; Classification: 435 ; Attorney/Agent Information: ; Name: Agis Dr., Cheryl H. ; Registration Number: 34,086 ; Reference/DoCKET Number: 4855,000-US ; Telecommunication Information: ; Telephone: 212-867-0123 ; Telefax: 212-978-9055 ; INFORMATION FOR SEQ ID NO: 10 ; SEQUENCE CHARACTERISTICS: LENGTH: 50 base pairs ; TYPE: nucleic acid ; STRANDEDNESS: single ; TOPOLOGY: linear ; MOLECULE TYPE: cDNA ; US-08-672-158A-10

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
c 1	21.2	4.3	50	1 US-08-672-158A-10	Sequence 10, Appli
c 2	21	4.2	30	1 US-07-385-692-5	Sequence 5, Appli
c 3	21	4.2	30	1 US-08-155-331-5	Sequence 5, Appli
c 4	21	4.2	30	1 US-08-147-7-0-3	Sequence 3, Appli
c 5	21	4.2	30	1 US-08-424-022-5	Sequence 5, Appli
c 6	21	4.2	30	1 US-08-458-090-3	Sequence 3, Appli
c 7	21	4.2	30	2 US-08-457-881-3	Sequence 3, Appli
c 8	21	4.2	30	2 US-08-424-017B-5	Sequence 5, Appli
c 9	21	4.2	30	4 US-09-904-621-3	Sequence 3, Appli
c 10	21	4.2	30	5 PCT-US94-11616-5	Sequence 5, Appli
c 11	20.2	4.1	50	US-08-385-152-1712	Sequence 1712, Appli
c 12	20.2	4.1	50	4 US-09-401-063-1712	Sequence 1712, Appli
c 13	19.8	4.0	42	2 US-09-133-774-26	Sequence 26, Appli
c 14	19.8	4.0	42	3 US-09-103-882-26	Sequence 26, Appli
c 15	19.8	4.0	50	3 US-08-985-162-1737	Sequence 1737, Appli
c 16	19.8	4.0	50	4 US-09-101-063-1737	Sequence 20, Appli
c 17	19.6	3.9	48	4 US-09-522-772B-20	Sequence 26, Appli
c 18	19	3.8	36	4 US-08-327-874A-26	Sequence 26, Appli
c 19	19	3.8	36	5 PCT-US94-097-20-26	Sequence 4, Appli
c 20	19	3.8	42	3 US-08-448-619-4	Sequence 5, Appli
c 21	19	3.8	42	3 US-08-448-619-5	Sequence 5, Appli
c 22	18.8	3.8	50	1 US-07-972-031-75	Sequence 75, Appli
c 23	18.4	3.7	36	4 US-09-438-268-25	Sequence 25, Appli
c 24	18.4	3.7	36	4 US-09-438-266-26	Sequence 26, Appli
c 25	18.4	3.7	38	2 US-08-392-610A-2015	Sequence 2015, Appli
c 26	18.4	3.7	38	2 US-08-292-620A-2022	Sequence 2022, Appli
c 27	18.4	3.7	38	2 US-08-292-620A-2179	Sequence 2179, Appli

RESULT 2

396 CAGCTTCGGTGAACCTATCAGTATCGCGAGAACATTCC 437
 Qy ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Db 50 CGGAGCGTTCAAGTCGCGACCATTCAGCAGAACACTCC 9

US-07-985-692-5
 Sequence 5, Application US/07985692
 GENERAL INFORMATION:
 APPLICANT: Sprecher, Cindy A.
 APPLICANT: Foster, Donald C.
 NO. 5436153ris, Kjeld
 TITLE OF INVENTION: NOVEL HUMAN AMYLOID PROTEIN PRECURSOR
 TITLE OF INVENTION: HOMOLOG AND KUNITZ-TYPE INHIBITOR
 NUMBER OF SEQUENCES: 11
 CORRESPONDENCE ADDRESS:
 ADDRESSEES: ZymoGenetics, Inc.
 STREET: 4225 Roosevelt Way, N.E.
 CITY: Seattle
 STATE: WA
 COUNTRY: USA
 ZIP: 98105
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/07985, 692
 FILING DATE: 1992/12/02
 CLASSIFICATION: 530
 ATTORNEY/AGENT INFORMATION:
 NAME: Parker, Gary E.
 REGISTRATION NUMBER: 31-684
 REFERENCE/DOCKET NUMBER: 92-21
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 206-547-8080 ext 322
 TELEFAX: 206-548-2329
 INFORMATION FOR SEQ ID NO: 5:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 30 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 IMMEDIATE SOURCE:
 CLONE: ZC4792
 US-08-155-331-5

OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/155, 331
 FILING DATE:
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/985, 692
 FILING DATE: 02-DEC-1992
 ATTORNEY/AGENT INFORMATION:
 NAME: Parker, Gary E.
 REGISTRATION NUMBER: 31-684
 REFERENCE/DOCKET NUMBER: 92-21C1
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 206-547-8080 ext 322
 TELEFAX: 206-548-2329
 INFORMATION FOR SEQ ID NO: 5:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 30 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 IMMEDIATE SOURCE:
 CLONE: ZC4792
 US-08-155-331-5

Query Match Score 21; DB 1; Length 30;
 Best Local Similarity 82.8%; Pred. No. 4.8e+03;
 Matches 24; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 377 GTTACGTGTCGCCGCGAGCTCCGT 405
 Db 1 GTTGTGTCGTGTCGCCGCGAGCTCCGT 29

RESULT 4
 US-08-147-710-3
 Sequence 3, Application US/08147710
 Patent No. 5453338
 GENERAL INFORMATION:
 APPLICANT: Sprecher, Cindy A.
 APPLICANT: Kisiai, Walter
 APPLICANT: Foster, Donald C.
 TITLE OF INVENTION: NOVEL HUMAN KUNITZ-TYPE INHIBITORS AND METHODS RELATING THERETO
 TITLE OF INVENTION: METHODS RELATING THERETO
 NUMBER OF SEQUENCES: 15
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: ZymoGenetics, Inc.
 STREET: 4225 Roosevelt Way, N.E.
 CITY: Seattle
 STATE: WA
 COUNTRY: USA
 ZIP: 98105
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/147, 710
 FILING DATE:
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: Parker, Gary E.
 REGISTRATION NUMBER: 31-684
 REFERENCE/DOCKET NUMBER: 93-14
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 206-547-8080 ext 322
 TELEFAX: 206-548-2329
 INFORMATION FOR SEQ ID NO: 3:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 30 base pairs
 TYPE: nucleic acid

RESULT 3
 US-08-155-331-5
 Sequence 5, Application US/08155331
 Patent No. 5441931
 GENERAL INFORMATION:
 APPLICANT: Foster, Donald C.
 APPLICANT: Sprecher, Cindy A.
 APPLICANT: No. 5441931ris, Kjeld
 TITLE OF INVENTION: NOVEL HUMAN AMYLOID PROTEIN PRECURSOR
 TITLE OF INVENTION: HOMOLOG AND KUNITZ-TYPE INHIBITOR
 NUMBER OF SEQUENCES: 19
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: ZymoGenetics, Inc.
 STREET: 4225 Roosevelt Way, N.E.
 CITY: Seattle
 STATE: WA
 COUNTRY: USA
 ZIP: 98105
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible

STRANDEDNESS: single
 TOPOLOGY: linear
 IMMEDIATE SOURCE:
 CLOBE: ZC4792
 US-08-147-710-3

Query Match Similarity 4.2%; Score 21; DB 1; Length 30;
 Best Local Similarity 82.8%; Pred. No. 4.8e+03;
 Matches 24; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 377 GTTACTGCTGTGGCCAGCTTCGGT 405
 Db 1 GTTGTGCTGTGGCTTCGGCTCGT 29

RESULT 5
 US-08-424-022-5
 Sequence 5, Application US/08424022
 Patent No. 5677146
 GENERAL INFORMATION:
 APPLICANT: Foster, Donald C
 ATTORNEY/AGENT INFORMATION:
 Spracher, Cindy A.
 APPLICANT: Foster, Donald C.
 ATTORNEY/AGENT INFORMATION:
 Spracher, Cindy A.
 TITLE OF INVENTION: NOVEL HUMAN AMYLOID PROTEIN PRECURSOR
 NUMBER OF SEQUENCES: 19
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: ZymoGenetics, Inc.
 STREET: 4225 Roosevelt Way, N.E.
 CITY: Seattle
 STATE: WA
 ZIP: 98105
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/458,090
 FILING DATE:
 CLASSIFICATION: 514
 ATTORNEY/AGENT INFORMATION:
 NAME: Parker, Gary E.
 REGISTRATION NUMBER: 31-648
 REFERENCE/DOCKET NUMBER: 93-14D2
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 206-442-6673
 TELEFAX: 206-442-6678
 INFORMATION FOR SEQ ID NO: 3:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 30 base pairs
 STRANDEDNESS: single
 TOPOLOGY: linear
 IMMEDIATE SOURCE:
 CLOSE: ZC4792
 US-08-458-090-3

Query Match Similarity 4.2%; Score 21; DB 1; Length 30;
 Best Local Similarity 82.8%; Pred. No. 4.8e+03;
 Matches 24; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 377 GTTACTGCTGTGGCTTCGGAGCTTCGGT 405
 Db 1 GTTGTGCTGTGGCTTCGGAGCTTCGGT 29

RESULT 7
 US-08-457-887-3
 Sequence 3, Application US/08457887
 Patent No. 5914315
 GENERAL INFORMATION:
 APPLICANT: Spracher, Cindy A.
 ATTORNEY/AGENT INFORMATION:
 Foster, Donald C.
 TITLE OF INVENTION: NOVEL HUMAN KUNITZ-TYPE INHIBITORS AND
 NUMBER OF SEQUENCES: 15
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: ZymoGenetics, Inc.
 STREET: 1201 Eastlake Avenue East
 CITY: Seattle
 STATE: WA
 COUNTRY: USA
 ZIP: 98102
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS

RESULT 6
 US-08-458-090-3

SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/457,887
FILING DATE:
CLASSIFICATION: 536
ATTORNEY/AGENT INFORMATION:
NAME: Parker, Gary E
REGISTRATION NUMBER: 31-648
REFERENCE/DOCKET NUMBER: 93-14D1
TELECOMMUNICATION INFORMATION
TELEPHONE: 206-442-6673
TELEFAX: 206-442-6678
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 30 base Pairs
TYPE: nucleic acid
STRANDINGNESS: single
TOPOLOGY: linear
IMMEDIATE SOURCE:
CLONE: ZC4792

1-08-457-887-3

RESULT 8
-08-424-017B-5
Sequence 5, Application US/08424017B
Patent No. 5935854

GENERAL INFORMATION:

APPLICANT: Foster, Donald C
SPRACHER, Cindy
APPLICANT: No. 59358541is, Kjeld
TITLE OF INVENTION: NOVEL HUMAN AMYLOID PROTEIN POLYPEPTIDE HOMOLOG AND KUNITZ-TYPE INHIBITOR
NUMBER OF SEQUENCES: 19
CORRESPONDENCE ADDRESS:
ADDRESSEE: ZymoGenetics, Inc.
STREET: 4225 Roosevelt Way, N.E.
CITY: Seattle
STATE: WA
COUNTRY: USA
ZIP: 98105

COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/424,017B
FILING DATE:
CLASSIFICATION:
PRICER APPLICATION DATA:
APPLICATION NUMBER: US/08/155,331
FILING DATE:
APPLICATION NUMBER: US 07/985,692
FILING DATE: 02-DEC-1992
ATTORNEY/AGENT INFORMATION:
NAME: Parker, Gary E
REGISTRATION NUMBER: 31-648
REFERENCE/DOCKET NUMBER: 92-21C1
TELEPHONE: 206-547-8080 ext 322
TELEFAX: 206-548-2329
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 30 base Pairs

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TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
IMMEDIATE SOURCE:
CLONE: ZC4722
US-08-424-017-B-5

Query Match      4
Best Local Similarity  82
Matches 24; Conservative
Qy   377 GTTACTGCTGTGGCC
Db       1 GTTGTGCTGTGGCC

RESULT 9
US-09-904-621-3
/ Sequence 3, Application US/
/ Patent No. 6656746
/ GENERAL INFORMATION:
/ APPLICANT: Sprecher, Cindy
/ APPLICANT: Kiesel, Walter
/ APPLICANT: Foster, Donald
/ TITLE OF INVENTION: NOVEL
/ TITLE OF INVENTION: AND
/ TITLE OF INVENTION: METHOD
/ FILE REFERENCE: 93-14D3
/ CURRENT APPLICATION NUMBER:
/ CURRENT FILING DATE: 2000-01-10
/ PRIOR APPLICATION NUMBER:
/ PRIOR FILING DATE: EARLIER
/ PRIOR APPLICATION NUMBER:
/ PRIOR FILING DATE: EARLIER
/ NUMBER OF SEQ ID NOS: 15
/ SOFTWARE: FastSEQ for Wind
/ SEQ ID NO: 3
/ LENGTH: 30
/ TYPE: DNA
/ ORGANISM: Artificial Seqn
/ FEATURE:
/ OTHER INFORMATION: Oligo
US-09-904-621-3

Query Match      4.
Best Local Similarity  82.
Matches 24; Conservative
Qy   377 GTTACTGCTGTGGCC
Db       1 GTTGTGCTGTGGCC

RESULT 10
PCT-US93-11696-5
/ Sequence 5, Application PC/
/ GENERAL INFORMATION:
/ APPLICANT: Foster, Donna
/ APPLICANT: Sprecher, Cindy
/ APPLICANT: Norris, Kiel
/ TITLE OF INVENTION: Novel
/ TITLE OF INVENTION: How
/ NUMBER OF SEQUENCES: 15
/ CORRESPONDENCE ADDRESS:
/ ADDRESS: ZymoGenetix
/ STREET: 4225 Roosevelt
/ CITY: Seattle
/ STATE: WA
/ COUNTRY: USA
/ ZIP: 98105
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy 6
/ COMPUTER: IBM PC compat

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OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: PCT/US93/11696
 FILING DATE:
 CLASSIFICATION:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07 /985, 692
 FILING DATE: 02-DEC-1992
 TELEPHONE: 206-547-8080 ext 322
 TELEFAX: 206-548-3329
 INFORMATION FOR SEQ ID NO: 5:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 30 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 IMMEDIATE SOURCE:
 CLOBE: 2C4792
 PCT-US93-11696-5

Query Match 4.2%; Score 21; DB 5; Length 30;
 Best Local Similarity 82.8%; Pred. No. 4.8e+03;
 Matches 24; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 377 GTTACTCTGTGGCCCTCGAGCTTCGTTCTCGT 405
 Db 1 GTTGTGTCGTTGCCTCGAGCCTCGT 29

RESULT 11
 US-08-985-162-1712
 Sequence 1712, Application US/08985162
 / Parent No. 605156
 / GENERAL INFORMATION:
 / APPLICANT: Akhtar, Saghir
 / APPLICANT: Bell, Patricia
 / APPLICANT: McSwiiggen, James
 / TITLE OF INVENTION: ENZYMATIC NUCLEIC ACID TREATMENT
 / TITLE OF INVENTION: OF DISEASES OR CONDITIONS RELATED
 / TITLE OF INVENTION: TO LEVELS OF EPIDERMAL GROWTH
 / TITLE OF INVENTION: FACTOR RECEPTORS
 / NUMBER OF SEQUENCES: 1877
 / CORRESPONDENCE ADDRESS:
 / ADDRESSEE: Lyon & Lyon
 / STREET: 633 West Fifth Street
 / CITY: Los Angeles
 / STATE: California
 / ZIP: 90071-2066
 / COMPUTER READABLE FORM:
 / MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
 / COMPUTER: IBM Compatible
 / OPERATING SYSTEM: IBM P.C. DOS 5.0
 / SOFTWARE: FASTSEQ For Windows 2.0
 / CURRENT APPLICATION DATA:
 / APPLICATION NUMBER: US/09/401,063
 / FILING DATE:
 / CLASSIFICATION:
 / PRIORITY APPLICATION DATA:
 / APPLICATION NUMBER: 08/985,162
 / FILING DATE: 04 December 1997
 / APPLICATION NUMBER: 60/036,476
 / FILING DATE: 31 January 1997
 / ATTORNEY/AGENT INFORMATION:
 / NAME: Warburg, Richard J.
 / REGISTRATION NUMBER: 32,327
 / REFERENCE/DOCKET NUMBER: 230/107
 / TELECOMMUNICATION INFORMATION:
 / TELEPHONE: (213) 489-1600
 / TELEFAX: (213) 955-0440
 / TELEX: 67-3510
 / INFORMATION FOR SEQ ID NO: 1712:
 / SEQUENCE CHARACTERISTICS:
 / LENGTH: 50 base pairs
 / TYPE: nucleic acid
 / STRANDEDNESS: single
 / TOPOLOGY: linear
 /

Query Match 4.1% ; Score 20.2 ; DB 4 ; Length 50 ;
 Best Local Similarity 60.6% ; Pred. No. 9.3e+03 ;
 Matches 20 ; Conservative 5 ; Mismatches 8 ; Indels 0 ; Gaps 0 ;

Qy 268 GCAACCAGAGGTTTGACATGGAAAACATGGTG 300
 Db 1 GCACCCAGAAGTUTACCAAGAAACAGCTUG 33

RESULT 13
 US-09-133-774-26
 Sequence 26, Application US/09133774B

GENERAL INFORMATION:
 i APPLICANT: Bachmaier, Kurt
 i APPLICANT: Hessel, Andrew J.
 i APPLICANT: Neu M.D., Nikolaus
 i APPLICANT: Penninger, Josef M.
 i TITLE OF INVENTION: No. 5961636el Peptides Capable of Modulating Inflammatory Heart Disease

FILE REFERENCE: A-536

CURRENT APPLICATION NUMBER: US/09/133,774B

CURRENT FILING DATE: 1998-08-12

NUMBER OF SEQ ID NOS: 26

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO: 26

LENGTH: 42

TYPE: DNA

ORGANISM: Human

US-09-133-774-26

Query Match 4.0% ; Score 19.8 ; DB 2 ; Length 42 ;
 Best Local Similarity 77.4% ; Pred. No. 1.1e+04 ;
 Matches 24 ; Conservative 0 ; Mismatches 7 ; Indels 0 ; Gaps 0 ;

Qy 115 CTGCAGCCTTCTGCCACTGTACTGGGGCT 145
 Db 12 CACCACTGGTTGCCAACTATGCTGGGGCT 42

RESULT 14
 US-09-303-862-26
 Sequence 26, Application US/09303862

GENERAL INFORMATION:
 i APPLICANT: Bachmaier, Kurt
 i APPLICANT: Hessel, Andrew J.
 i APPLICANT: Neu M.D., Nikolaus
 i APPLICANT: Penninger, Josef M.

TITLE OF INVENTION: No. 6034230el Peptides Capable of Modulating Inflammatory Heart Disease

FILE REFERENCE: A-536

CURRENT APPLICATION NUMBER: US/09/303,862

CURRENT FILING DATE: 1999-05-03

EARLIER APPLICATION NUMBER: 98/133,774

EARLIER FILING DATE: 1998-08-12

NUMBER OF SEQ ID NOS: 26

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO: 26

LENGTH: 42

TYPE: DNA

ORGANISM: Human

US-09-303-862-26

Query Match 4.0% ; Score 19.8 ; DB 3 ; Length 42 ;
 Best Local Similarity 77.4% ; Pred. No. 1.1e+04 ;
 Matches 24 ; Conservative 0 ; Mismatches 7 ; Indels 0 ; Gaps 0 ;

Qy 115 CTGCAGCCTTCTGCCACTGTACTGGGGCT 145
 Db 12 CACCACTGGTTGCCAACTATGCTGGGGCT 42

Search completed: May 26, 2004, 09:20:42
 Job time : 97.1979 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: May 26, 2004, 05:41:55 ; Search time 2173.84 Seconds
(without alignments)
1041.142 Million cell updates/sec

Title: US-10-048-046-1_COPY_1516_2013
Perfect score: 498
Sequence: tgcctctgcaaggaagccca.....gctactggggccgtaaatgc 498

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 295838 seqs, 2272363821 residues
Total number of hits satisfying chosen parameters: 1612472

Minimum DB seq length: 0
Maximum DB seq length: 50

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications NA:
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 2: /cgn2_6/prodata/1/pubnra/PCT_NEW.PUB.seq/*
 3: /cgn2_6/prodata/1/pubnra/US05_NEW.PUB.seq/*
 4: /cgn2_6/prodata/1/pubnra/US06_PUBBOMB.seq/*
 5: /cgn2_6/prodata/1/pubnra/US01_NEW.PUB.seq/*
 6: /cgn2_6/prodata/1/pubnra/PCTUS_PUBCOMB.seq/*
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 16: /cgn2_6/prodata/1/pubnra/US10C_PUBCOMB.seq/*
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 19: /cgn2_6/prodata/1/pubnra/US60_PUBCOMB.seq/*

RESULT 1
 US-09-304-621-3
 ; Sequence 3 , Application US/09904621
 ; Patent No. US20020098560A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Sprecher, Cindy A.
 ; ATTORNEY OR AGENT FOR APPLICANT: Kisieli, Walter
 ; ATTORNEY OR AGENT FOR APPLICANT: Foster, Donald C.
 ; TITLE OF INVENTION: NOVEL HUMAN KUNITZ-TYPE INHIBITORS
 ; TITLE OF INVENTION: AND
 ; TITLE OF INVENTION: METHODS RELATING THERETO
 ; FILE REFERENCE: 93-14D3
 ; CURRENT APPLICATION NUMBER: US/09/904,621
 ; CURRENT FILING DATE: 2001-07-13
 ; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/265,627
 ; PRIOR FILING DATE: EARLIER FILING DATE: 1999-03-09
 ; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 5,455,338
 ; PRIOR FILING DATE: EARLIER FILING DATE: 1993-11-05
 ; NUMBER OF SEQ ID NOS: 15
 ; SOFTWARE: FastSEQ for Windows Version 3.0
 ; SEQ ID NO: 3
 ; LENGTH: 30
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE: Oligonucleotide 2C4792
 ; OTHER INFORMATION: Best Local Similarity 82.8%; Pred. No. 1.1e+04;
 ; US-09-304-621-3
 ; Query Match Score 21; DB 9; Length 30;
 ; Matches 24; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

ALIGNMENTS

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	21	4.2	30	9 US-09-304-621-3	Sequence 3, Appli
2	20.8	4.2	48	12 US-10-251-085B-26	Sequence 26, Appli
3	20.8	4.2	48	12 US-10-251-085B-64	Sequence 64, Appli
4	20.4	4.1	47	16 US-10-415-247-6	Sequence 6, Appli
c 5	19.20	4.0	50	16 US-10-131-827-912	Sequence 912, Appli
c 6	19.6	3.9	48	11 US-09-167-764A-12	Sequence 12, Appli
c 7	19.6	3.9	48	15 US-10-285-010-20	Sequence 20, Appli
8	19.6	3.9	50	16 US-10-131-927-7822	Sequence 7822, Appli
9	19.4	3.9	39	15 US-10-173-161-24	Sequence 24, Appli
10	19.4	3.8	36	15 US-10-008-960-26	Sequence 26, Appli
11	18.8	3.8	48	12 US-10-251-085B-27	Sequence 27, Appli
12	18.8	3.8	48	12 US-10-251-085B-38	Sequence 38, Appli
13	18.9	3.8	48	12 US-10-251-085B-65	Sequence 65, Appli
14	18.8	3.8	48	12 US-10-251-085B-76	Sequence 76, Appli

RESULT 2
US-10-251-005B-26
; Sequence 26, Application US/10251085B
; Publication No. US20040072164A1
; GENERAL INFORMATION:
; APPLICANT: Bowdish, Katherine S.
; APPLICANT: Frederickson, Shana
; APPLICANT: Renshaw, Mark
; APPLICANT: Lin, Ying-Chi
; TITLE OF INVENTION: ENGINEERED TEMPLATES AND THEIR USE IN SINGLE PRIMER AMPLIFICATION
FILE REFERENCE: 1087-21
CURRENT APPLICATION NUMBER: US/10/251,085B
PRIORITY FILING DATE: 2002-09-19
PRIOR APPLICATION NUMBER: US 60/323,455
PRIOR FILING DATE: 2001-09-19
NUMBER OF SEQ ID NOS: 278
SOFTWARE: PatentIn version 3.2
SEQ ID NO: 26
LENGTH: 48
TYPE: DNA
FEATURE: artificial sequence
OTHER INFORMATION: primer
US-10-251-005B-26

Query Match Score 20.8; DB 12; Length 48;
Best Local Similarity 70.0%; Pred. No. 1.5e+04;
Matches 0; Mismatches 12; Indels 0; Gaps 0;
Qy 50 TGCCGACGGAGGGAGGGAGCGGAGCCGGCTGT 89
Db 5 TGCCGTTGAAGGGATGTGTCAGGGTCAAGCTGT 44

RESULT 3
US-10-251-005B-64
; Sequence 64, Application US/10251085B
; Publication No. US20040072164A1
; GENERAL INFORMATION:
; APPLICANT: Bowdish, Katherine S.
; APPLICANT: Frederickson, Shana
; APPLICANT: Renshaw, Mark
; APPLICANT: Lin, Ying-Chi
; TITLE OF INVENTION: ENGINEERED TEMPLATES AND THEIR USE IN SINGLE PRIMER AMPLIFICATION
FILE REFERENCE: 1087-21
CURRENT APPLICATION NUMBER: US/10/251,085B
PRIORITY FILING DATE: 2002-09-19
PRIOR APPLICATION NUMBER: US 60/323,455
PRIOR FILING DATE: 2001-09-19
NUMBER OF SEQ ID NOS: 278
SOFTWARE: PatentIn version 3.2
SEQ ID NO: 64
LENGTH: 48
TYPE: DNA
FEATURE: artificial sequence
OTHER INFORMATION: primer
US-10-251-005B-64

RESULT 4
US-10-415-247-6
; Sequence 6, Application US/10415247

Publication No. US20040013655A1
; GENERAL INFORMATION:
; APPLICANT: Shiozawa, Shunichi
; TITLE OF INVENTION: Genome responsible for chronic rheumatoid arthritis, diagnostic method, pathognomonic judging method and detection-use diagnostic kit of chronic rheumatoid arthritis, and therapeutic method and medicine of chronic rheumatoid arthritis
; FILE REFERENCE: TLOP1-2
; CURRENT APPLICATION NUMBER: US/10/415,247
; PRIORITY APPLICATION NUMBER: JP 2000-324296
; PRIORITY FILING DATE: 2000-10-24
; PRIORITY APPLICATION NUMBER: JP 2001-90546
; PRIORITY FILING DATE: 2001-3-27
; PRIORITY APPLICATION NUMBER: JP 2001-99990
; PRIORITY FILING DATE: 2001-3-30
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO: 6
; LENGTH: 47
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthesized oligonucleotide
US-10-415-247-6

Query Match Score 20.4; DB 16; Length 47;
Best Local Similarity 65.2%; Pred. No. 2e+04;
Matches 30; Conservative 0; Mismatches 16; Indels 0; Gaps 0;
Qy 27 GTGCCACCTRGCTGCTGCCAGCCCCATGCCGGAGCGGAGCGGC 72
Db 2 GGGTACCATCCTGGCTCTGCCCTGGCTGGCTGGTGTGGATGTC 47

RESULT 5
US-10-131-827-912/c
; Sequence 912, Application US/10131827
; Publication No. US20040009479A1
; GENERAL INFORMATION:
; APPLICANT: Wohlgemuth, Jay
; APPLICANT: Fey, Kirk
; APPLICANT: Woodward, Robert
; APPLICANT: LY, Ngoc
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR DIAGNOSING AND MONITORING AUTOIMMUNE DISEASES
FILE REFERENCE: 506512000120
CURRENT APPLICATION NUMBER: US/10/131,827
PRIORITY FILING DATE: 2002-09-06
PRIOR APPLICATION NUMBER: US 10/006,290
PRIOR FILING DATE: 2001-10-22
PRIOR APPLICATION NUMBER: US 60/296,764
PRIOR FILING DATE: 2001-06-08
NUMBER OF SEQ ID NOS: 9090
SOFTWARE: PatentIn version 3.1
SEQ ID NO: 912
LENGTH: 50
TYPE: DNA
ORGANISM: Homo sapiens
US-10-131-827-912

RESULT 6
US-09-767-764A-12/c

Sequence 12, Application US/09757764A
 Publication No. US20030207265A1
 GENERAL INFORMATION:
 TITLE OF INVENTION: METHOD OF MAKING PROTEIN ARRAYS
 FILE REFERENCE: 10498-0009
 CURRENT APPLICATION NUMBER: US/09/767,764A
 CURRENT FILING DATE: 2001-01-23
 PRIORITY APPLICATION NUMBER: 09/522,732
 PRIORITY FILING DATE: 2000-03-10
 NUMBER OF SEQ ID NOS: 37
 SEQ ID NO: 12
 LENGTH: 48
 TYPE: DNA
 ORGANISM: Artificial sequence
 FEATURE:
 OTHER INFORMATION: Amplification primer
 US-09-767-764A-12

Query Match 3.9%; Score 19.6; DB 11; Length 48;
 Best Local Similarity 73.5%; Pred. No. 3.5e+04; Indels 0; Gaps 0;
 Matches 25; Conservative 0; Mismatches 9;

RESULT 7
 US-10-285-010-20/c
 Sequence 20, Application US/10285010
 Publication No. US20030124594A1
 GENERAL INFORMATION:
 APPLICANT: Church, George
 ATTORNEY OR AGENT: Mitra, Robi
 TITLE OF INVENTION: Replica Amplification Of Nucleic Acid Arrays
 FILE REFERENCE: 10498-00040
 CURRENT APPLICATION NUMBER: US/10/285,010
 CURRENT FILING DATE: 2002-10-31
 NUMBER OF SEQ ID NOS: 24
 SEQ ID NO: 20
 LENGTH: 48
 TYPE: DNA
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: amplification primer
 US-10-285-010-20

Query Match 3.9%; Score 19.6; DB 15; Length 48;
 Best Local Similarity 73.5%; Pred. No. 3.5e+04; Indels 0; Gaps 0;
 Matches 25; Conservative 0; Mismatches 9;

RESULT 8
 US-10-131-827-7822
 Sequence 7822, Application US/10131827
 Publication No. US20040009479A1
 GENERAL INFORMATION:
 APPLICANT: Wohlgemuth, Jay
 ATTORNEY OR AGENT: FRY, Kirk
 APPLICANT: Woodward, Robert
 ATTORNEY OR AGENT: Ly, Ngoc
 TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR DIAGNOSING AND MONITORING AUTOIMMUNE DISEASES
 FILE REFERENCE: 50861200120
 CURRENT APPLICATION NUMBER: US/10/131,827
 CURRENT FILING DATE: 2002-09-06

PRIOR APPLICATION NUMBER: US 10/006,290
 PRIORITY FILING DATE: 2001-10-22
 PRIOR APPLICATION NUMBER: US 60/296,764
 PRIORITY FILING DATE: 2001-06-08
 NUMBER OF SEQ ID NOS: 9090
 SOFTWARE: PatentIn version 3.1
 SEQ ID NO: 7822
 LENGTH: 50
 TYPE: DNA
 ORGANISM: Homo sapiens
 US-10-131-827-7822

Query Match 3.9%; Score 19.6; DB 16; Length 50;
 Best Local Similarity 66.7%; Pred. No. 3.5e+04; Indels 0; Gaps 0;
 Matches 28; Conservative 0; Mismatches 14;

Qy 197 TGGTGACAGTGTCTGACGGGTGTAACACAGCT 238
 Db 1 TGCGGAGCCAGTCCTGGATGGATTGTGATCACAGATT 42

RESULT 9
 US-10-173-461-24
 Sequence 24, Application US/10173461
 Publication No. US2003138795A1
 GENERAL INFORMATION:
 APPLICANT: Bristol-Myers Squibb Company
 TITLE OF INVENTION: POLYNUCLEOTIDE ENCODING A NOVEL HUMAN GROWTH FACTOR WITH HOMOLOGY TO THE INVENTION: EPIDERMAL GROWTH FACTOR, BOSS-8, EXPRESSED HIGHLY IN IMMUNE TISSUE
 FILE REFERENCE: D0166 NP
 CURRENT APPLICATION NUMBER: US/10/173,461
 CURRENT FILING DATE: 2002-01-14
 PRIORITY APPLICATION NUMBER: US 60/298,340
 PRIORITY FILING DATE: 2001-06-14
 NUMBER OF SEQ ID NOS: 69
 SOFTWARE: PatentIn version 3.0
 SEQ ID NO: 24
 LENGTH: 39
 TYPE: DNA
 ORGANISM: Homo sapiens
 US-10-173-461-24

Query Match 3.9%; Score 19.4; DB 15; Length 39;
 Best Local Similarity 70.3%; Pred. No. 3.9e+04; Indels 11; Gaps 0;
 Matches 26; Conservative 0; Mismatches 11;

Qy 158 GCTGCTAACGGCTGCCCTGGCTGAGGCTCAA 194
 Db 1 GCAGCAGGCCATGCCCTGGAGTAGACCA 37

RESULT 10
 US-10-008-960-26
 Sequence 26, Application US/10008960
 Publication No. US20030133971A1
 GENERAL INFORMATION:
 APPLICANT: Baylor College Of Medicine
 ATTORNEY OR AGENT: SMITH, JAMES R.
 APPLICANT: DRITZ, DAVID J.
 APPLICANT: WILSON, DEBORAH R.
 APPLICANT: ZUMSTEIN, LOUIS A.
 TITLE OF INVENTION: SENESCENT CELL DERIVED INHIBITORS OF DNA SYNTHESIS
 TITLE OF INVENTION: DNA SYNTHESIS
 NUMBER OF SEQUENCES: 36
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: ROGERS & WELLIS
 STREET: 200 PARK AVENUE
 CITY: NEW YORK
 STATE: NEW YORK
 COUNTRY: USA
 ZIP: 10166
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-POS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/10/008,960
 FILING DATE: 07-DEC-2001
 CLASSIFICATION:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/08/327,874
 FILING DATE: 02-NOV-1992
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/113,372
 FILING DATE: 30-AUG-1993
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/153,564
 FILING DATE: 17-NOV-1993
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/203,535
 FILING DATE: 25-FEB-1994
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/229,420
 FILING DATE: 15-APR-1994
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/274,535
 FILING DATE: 13-JUL-1994
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: PCT US94/09700
 FILING DATE: 26-AUG-1994
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/327,874
 FILING DATE: 24-OCT-1994
 ATTORNEY/AGENT INFORMATION:
 NAME: NORTON, GERARD P.
 REGISTRATION NUMBER: 36,621
 REFERENCE/DOCKET NUMBER: 3634-8-CIP10
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (212) 878-3148
 TELEFAX: (212) 878-8375
 INFORMATION FOR SEQ ID NO: 26:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 36 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 HYPOTHETICAL: NO
 ANTI-SENSE: NO
 IMMEDIATE SOURCE:
 CLONE: Primer
 US-10-008-960-26

Query Match 3.8% Score 19; DB 15; Length 36;
 Best Local Similarity 71.4%; Pred. No. 5e+04;
 Matches 25; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

Qy 458 CCGTAACATCCGTCCTGACTGTACGGCCGT 492
 Db 2 CGGAGACATCCGGCACTTGCCTGGCCGT 36

RESULT 11
 US-10-251-085B-27
 ; Sequence 27, Application US/10251085B
 ; Publication No. US20040072164A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Bowdish, Katherine S.
 ; APPLICANT: Frederickson, Shana
 ; APPLICANT: Renshaw, Mark
 ; APPLICANT: Lin, Ying-Chi
 ; APPLICANT: Maruyama, Toshiaki

Query Match 3.8% Score 19; DB 15; Length 36;
 Best Local Similarity 71.4%; Pred. No. 5e+04;
 Matches 25; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

Qy 458 CCGTAACATCCGTCCTGACTGTACGGCCGT 492
 Db 2 CGGAGACATCCGGCACTTGCCTGGCCGT 36

RESULT 12
 US-10-251-085B-38
 ; Sequence 38, Application US/10251085B
 ; Publication No. US20040072164A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Bowdish, Katherine S.
 ; APPLICANT: Frederickson, Shana
 ; APPLICANT: Renshaw, Mark
 ; APPLICANT: Lin, Ying-Chi
 ; APPLICANT: Maruyama, Toshiaki
 ; TITLE OF INVENTION: ENGINEERED TEMPLATES AND THEIR USE IN SINGLE PRIMER AMPLIFICATION
 ; FILE REFERENCE: 1087-21

Query Match 3.8% Score 18.8; DB 12; Length 48;
 Best Local Similarity 65.0%; Pred. No. 6.4e+04;
 Matches 26; Conservative 1; Mismatches 13; Indels 0; Gaps 0;

Qy 50 TGCCGACGGAGAGCGGAGCGGAGAGGAGCCGCCGTG 89
 Db 5 TGCCGTTGGAGAGGAGTGTGTCGAGSAGTCCAGCTGTG 44

RESULT 13
 US-10-251-085B-65
 ; Sequence 65, Application US/10251085B
 ; Publication No. US20040072164A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Bowdish, Katherine S.
 ; APPLICANT: Frederickson, Shana
 ; APPLICANT: Renshaw, Mark
 ; APPLICANT: Lin, Ying-Chi
 ; APPLICANT: Maruyama, Toshiaki

```

; TITLE OF INVENTION: ENGINEERED TEMPLATES AND THEIR USE IN SINGLE PRIMER AMPLIFICATION
; FILE REFERENCE: 1087-21
; CURRENT APPLICATION NUMBER: US/10/251,085B
; PRIORITY FILING DATE: 2002-09-19
; PRIOR APPLICATION NUMBER: US 60/323,455
; NUMBER OF SEQ ID NOS: 278
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO: 65
; LENGTH: 48
; TYPE: DNA
; ORGANISM: artificial sequence
; FEATURE: OTHER INFORMATION: primer
; US-10-251-085B-65

Query Match 3.8%; Score 18.8; DB 12; Length 48;
Best Local Similarity 65.0%; Pred. No. 6.4e+04;
Matches 26; Conservative 1; Mismatches 13; Indels 0; Gaps 0;
Qy 50 TGCCCGACCGAGAGGGAGCCGAGAGGACCCGGCTGT 89
Db 5 TGCCCGTGTGAAGAGGACTGTCGAGAGTCAAGTGGT 44

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RESULT 14
US-10-251-085B-76
; Sequence 76, Application US/10251085B
; Publication No US2004007216A1
; GENERAL INFORMATION:
; APPLICANT: Bowdish, Katherine S.
; APPLICANT: Frederickson, Shana
; APPLICANT: Renshaw, Mark
; APPLICANT: Lin, Ying-Chi
; APPLICANT: Maruyama, Toshiaki
; TITLE OF INVENTION: ENGINEERED TEMPLATES AND THEIR USE IN SINGLE PRIMER AMPLIFICATION
; FILE REFERENCE: 1087-21
; CURRENT APPLICATION NUMBER: US/10/251,085B
; PRIORITY FILING DATE: 2002-09-19
; PRIOR FILING DATE: 2001-09-19
; NUMBER OF SEQ ID NOS: 278
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO: 76
; LENGTH: 48
; TYPE: DNA
; ORGANISM: artificial sequence
; FEATURE: OTHER INFORMATION: primer
; US-10-251-085B-76

Query Match 3.8%; Score 18.8; DB 12; Length 48;
Best Local Similarity 65.0%; Pred. No. 6.4e+04;
Matches 26; Conservative 1; Mismatches 13; Indels 0; Gaps 0;
Qy 50 TGCCCGACCGAGAGGGAGCCGAGAGGACCCGGCTGT 89
Db 5 TGCCCGTGTGAAGAGGACTGTCGAGAGTCAAGTGGT 44

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RESULT 15
US-09-423-3110/C
; Sequence 3110, Application US/09930423
; Publication No. US20030092003A1
; GENERAL INFORMATION:
; APPLICANT: Ribayne Pharmaceuticals, Inc.
; APPLICANT: Blatt, Larry
; APPLICANT: McSwiggen, Jim
; TITLE OF INVENTION: Method and Reagent for the Treatment of Alzheimer's Disease
; FILE REFERENCE: MBH00_018-A 4/00/027
; CURRENT APPLICATION NUMBER: US/09/930,423
; CURRENT FILING DATE: 2001-08-15
; NUMBER OF SEQ ID NOS: 4553

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: May 26, 2004, 05:12:53 ; Search time 3457.26 Seconds
 (without alignments)

4301.492 Million cell updates/sec

Title: US-10-048-046-1_COPY_1516_2013

Perfect score: 498

Sequence: tgcctctgcaaggaaagcca.....gtctactggggccgttaactggc 498

Scoring table: IDENTITY_NUC

Gapped 10_0 , Gapext 1.0

Searched: 27513289 seqs, 14931090276 residues

Total number of hits satisfying chosen parameters: 138346

Minimum DB seq length: 0

Maximum DB seq length: 50

Post-processing: Minimum Match 0%
 Maximum Match 100%
 Listing first 45 summaries

Database : EST:*

1: em_estba:*

2: em_estthum:*

3: em_estin:*

4: em_estmu:*

5: em_estcov:*

6: em_espl1:*

7: em_estro:*

8: em_htc:*

9: gb_est1:*

10: gb_est2:*

11: gb_htc:*

12: gb_est3:*

13: gb_est4:*

14: gb_est5:*

15: em_estfun:*

16: em_estcom:*

17: em_gss_hum:*

18: em_gss_inv:*

19: em_gss_pln:*

20: em_gss_vrt:*

21: em_gss_fut:*

22: em_gss_man:*

23: em_gss_mus:*

24: em_gss_pro:*

25: em_gss_rod:*

26: em_gss_phb:*

27: em_gss_vz1:*

28: gb_gssi:*

29: gb_gss2:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query	Match Length	DB ID	Description
1	20.8	4.2	50	9 AU105995	AU105995 AU105995
2	20.8	4.2	50	9 AU105997	AU105997 AU105997
3	20.6	4.1	50	9 AU105996	AU105996 AU105996
4	20.2	4.1	47	28 CCL78014 XCB98 Bay	CCL78014 XCB98 Bay

% Query Match Length DB ID Description

Sugano, S. Construction and characterization of a full length-enriched and a 5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).

FEATURES source

1. 5' location/Qualifiers

/organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone_id="ADSE00435"
 /clone_lib="Sugano Homo sapiens cDNA library"

ORIGIN

Query Match Score 20.8; DB 9; Length 50;
 Best Local Similarity 64.6%; Pred. No. 6.5e+05;
 Matches 31; Conservative 0; Mismatches 17; Indels 0; Gaps 0;

Db 38 GCTTCAGCCATGCCGACCGGAGCGGAGGCGGAGGACCGC 85
 1 GTTGGCTGCCAGGCTGCCGGAGGTGAGCCGGCTGCC 48

RESULT 2

AU105997 AU105997 Sugano Homo sapiens cDNA library Homo sapiens EST 30-AUG-2001

DEFINITION AU105997 Sugano Homo sapiens cDNA library Homo sapiens cDNA clone KATA0410, mRNA sequence.

ACCESSION AU105997

VERSION AU105997.1

KEYWORDS EST.

SOURCE Homo sapiens (human)

ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.

REFERENCE AUTHORS Suzuki, Y., Taira, H., Teunoda, T., Mizushima-Sugano, J., Sese, J., Hata, H., Ota, T., Isogai, T., Tanaka, T., Morishita, S., Okubo, K., Nakamura, Y., Sugano, S., and Sugano, S.

TITLE Diverse transcriptional initiation revealed by fine, large-scale mapping of mRNA start sites

JOURNAL EMBO Rep. 2 (5), 388-393 (2001)

MEDLINE 21270072

PUBMED 11375929

COMMENT Contact: Yutaka Suzuki
 Department of Virology
 Institute of Medical Science, University of Tokyo
 4-6-1, Shiokanedai, Minato, Tokyo 108-8639, Japan
 Email: yuzuki@ims.u-tokyo.ac.jp

FEATURES source

1. .50 Location/Qualifiers

/organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone_id="ADSE00435"
 /clone_lib="Sugano Homo sapiens cDNA library"

ORIGIN

Query Match Score 20.6; DB 9; Length 50;
 Best Local Similarity 67.4%; Pred. No. 7.3e+05;
 Matches 29; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

Qy 43 CAGCCATGCCGACCGAGCCGAGCCGAGCAGGACCCGC 85
 Db 6 CTGGCGAGGCTGGCGAGCTGGCGCCGCGCTGCC 48

RESULT 4

CC178014 CC178014 Sugano Homo sapiens cDNA library EST 30-AUG-2001

LOCUS X898 BayGenomics Gene Trap Library pDTLxT Mus musculus cDNA, mRNA DEFINITION Sequence.

ACCESSION CC178014.1

VERSION GI:30316565

KEYWORDS GSS.

SOURCE Mus musculus (house mouse)

ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

REFERENCE 1 (bases 1 to 47)

AUTHORS BayGenomics.

TITLE http://baygenomics.ucsf.edu/
 Unpublished (2001)

COMMENT Contact: BayGenomics
 Bay Area Functional Genomics Consortium (BayGenomics)
 Email: info@baygenomics.ucsf.edu

Sequence tag generated by 5'-RACE of total RNA from gene trap ES cell line. ES cell lines harboring insertion mutation of target gene are available upon request from BayGenomics. Annotation information available from
http://baygenomics.ucsf.edu/cgi-bin/BaySearch.py?OPTION=EXACT&TYPE=CELL_LINEKEY_XC898

FEATURES source

1. .50 Location/Qualifiers

/organism="Homo sapiens"
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 /clone_id="AIA010"
 /clone_lib="Sugano Homo sapiens cDNA library"

ORIGIN

Query Match Score 20.8; DB 9; Length 50;
 Best Local Similarity 64.8%; Pred. No. 6.5e+05;
 Matches 31; Conservative 0; Mismatches 17; Indels 0; Gaps 0;

Qy 38 GCTTCAGCCATGCCGACCGAGCCGAGCAGGACCCGC 85
 1 GTTGGCTGCCAGGCTGGCGAGCCGAGCTGGCGCCGCTGCC 48

RESULT 3

AU105996 AU105996 Sugano Homo sapiens cDNA library Homo sapiens EST 30-AUG-2001

DEFINITION LCUS

DEFINITION

FEATURES source

1. .47 Location/Qualifiers

/organism="Mus musculus"

ORIGIN /mol_type="mRNA"
 /strain="129 OLA"
 /db_xref="taxon:10090"
 /sex="Male"
 /cell_type="Embryonic stem cell"
 /clone_id="BayGenomics Gene Trap Library EGTL1xf"
 /note="Vector: pGT11xf"

Qy 146 GCACCGGACCGGGCTACGGCTGGCTGGCCCGTTTGTG 187
 Db 42 GCCCCTGAGGGCTGGCGCTAGCTGGCGCG 1

RESULT 6
 AU103246/c
 LOCUS AU103246 Sugano Homo sapiens cDNA library Homo sapiens cDNA clone KAT0174, mRNA sequence.

DEFINITION AU103246.1 GI:13552767
 VERSION EST
 KEYWORDS SOURCE
 ORGANISM Homo sapiens (human)
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 1 (bases 1 to 50)

REFERENCE
 AUTHORS Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata,H., Ota,T., Isogai,T., Tanaka,T., Morishita,S., Okubo,K., Sakaki,Y., Nakamura,Y., Suyama,A. and Sugano,S.
 TITLE Diverse transcriptional initiation revealed by fine, large-scale mapping of mRNA start sites
 JOURNAL EMBO Rep. 2 (5), 388-393 (2001)
 MEDLINE 21270072
 PUBMED 11375929
 COMMENT Contact: Yutaka Suzuki
 Department of Virology
 Institute of Medical Science, University of Tokyo
 4-6-1, Shirokanedai, Minato-ku, Tokyo 108-8639, Japan
 Email: Y.suzuki@ims.u-tokyo.ac.jp
 Sugano,Y., Yoshitomo-Nakagawa,K., Maruyama,K., Suyama,A. and Sugano,S. Construction and characterization of a full length-enriched and a 5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).

FEATURES Location/Qualifiers
 1 50
 source /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="Taxon:9606"
 /clone=KAT0174
 /clone_lib="Sugano Homo sapiens cDNA library"

ORIGIN Query Match 3.9%; Score 19.6; DB 9; Length 50;
 Best Local Similarity 66.7%; Pred. No. 1.3e+06;
 Matches 28; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

Qy 40 TTCCAGGCCATGGCGACCGAGGGAGGGAGGAGGAC 81
 Db 45 TACCGAACGGCGCCTGTGAGGAACGCCGGAGCGGAC 4

RESULT 7
 AZ606700/c
 LOCUS AZ606700 49 bp DNA linear GSS 13-DEC-2000
 DEFINITION 1M0428E15R Mouse 10kb plasmid UGGCM 1 library Mus musculus genomic clone UGGCM0428E15 R, genomic survey sequence.

VERSION AZ606700.1 GI:11728890
 KEYWORDS SOURCE
 ORGANISM Mus musculus (house mouse)
 Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Murinae; Mus.
 1 (bases 1 to 49)

REFERENCE
 AUTHORS Dunn,D., Ayagi,A., Barber,M., Beacons,T., Duval,B., Hamil,C., Islam,H., Longacre,S., Maimoud,M., Meenin,E., Pedersen,T., Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederauern,A. and Wright,D.,Weiss,R.
 TITLE Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts

ORIGIN Query Match 3.9%; Score 19.6; DB 9; Length 43;
 Best Local Similarity 66.7%; Pred. No. 1.2e+06;
 Matches 28; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

JOURNAL	TITLE
COMMENT	The WashU-HMMI Mouse EST Project Unpublished (1996) Contact: Marra M/Youse EST Project WashU-HMMI Mouse EST Project Washington University School of Medicine 4414 Forest Park Parkway, Box 8501, St. Louis, MO 63108 Tel: 314 286 1800 Fax: 314 286 1810
FEATURES	<p>source</p> <p>organism="Mus musculus" mol type="genomic DNA" strain="C57BL/6J" db xref="axon:10090" clone="UNCC1M0428E15" sex="Male" lab host="E. Coli strain XL10-Gold, T1-resistant, F-" clone lib="Mouse 10kb Plasmid UGCGCM library" note="Vector: PWD42IV; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (http://wwwjax.org/resources/documents/dnarecs/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA Polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWP42 (gi 4722149b AF129072.1), a copy number inducible derivative of Plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to adaptored vector DNA, and transformed into chemically competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."</p>
ORIGIN	<p>Query Match 3.9%; Score 19.4; DB 28; Length 49; Best Local Similarity 64.4%; Pred. No. 1.4e+06; Matches 29; Conservative 0; Mismatches 16; Indels 0; Gaps 0;</p> <p>Qy 90 CGCCCTCTAGCAGTGTGCCTGCCGCTTCGCCACT 134 Db 47 CTCCCTCTTTACCTGCCGGCTCAAGAGCTTCAAT 3</p> <p>RESULT 9 AI271755/C LOCUS AI271755 mRNA linear EST 17-MAR-1999 DEFINITION Cj77c07-x1 NCI CGAP Kid3 Homo sapiens cDNA clone IMAGE:1861484 3' SOURCE Homo sapiens (human) ORGANISM Homo sapiens KEYWORDS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. REFERENCE 1 (bases 1 to 49) AUTHORS NCBI-GAP http://www.ncbi.nlm.nih.gov/ncicgap. TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP), Tumor Gene Index Unpublished (1997) Contact: Robert Strausberg, Ph.D. Email: csgap-r@mail.nih.gov Tissue Procurement: Christopher Mossakuluk, M.D., Ph.D., Michael R. Emmert-Buck, M.D., Ph.D. Waterston, R., Wyllie, T., Lennon, G., Lennon, B., Wilson, R. and Schellenberg, G.K., Steepce, M., Tan, F., Underwood, K., Moore, B.,</p>
DEFINITION	<p>RESULT 8 AA990168/c ACCDEFINITION AA990168.1 LOCUS AA990168.1 VERSION GI:3175532 KEYWORDS Mus musculus (house mouse) ORGANISM Mus musculus Mammalia; Eutheria; Rodentia; Sciurognath; Muridae; Murinae; Mus. 1 (bases 1 to 40) Marra, M., Hillier, L., Allen, M., Bowles, M., Dietrich, N., Dubuge, T., Geisel, S., Kucaba, T., Lacy, M., Le, M., Martin, J., Morris, M., Schellenberg, G.K., Steepce, M., Tan, F., Underwood, K., Moore, B., Theisinger, B., Wyllie, T., Lennon, G., Lennon, B., Wilson, R. and Waterston, R.</p>

CDNA Library Preparation: M. Bento Soares, Ph.D.
 CDNA Library Arrayed by: Greg Lennon, Ph.D.
 Clone Sequencing by: Washington University Genome Sequencing Center
 found through the I.M.A.G.E. Consortium/LINL at:
www-bio.llnl.gov/bbcrp/image/image.html

Trace Considered: overall poor quality
 Insert Length: 1806 Std Error: 0.00
 Seq primer: -40UP from Gbco
 High quality sequence stop: 1.

Location/Qualifiers
 1. .49
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 /db_xref="Taxon:9606"
 /lab_host="UDH10B"
 /clone_lib="NCI CGAP_Kid3"
 /note="Organ: kidney; Vector: pT7T3D-Pac (Pharmacia) with a modified Polylinker; Site_1: Not I; Site_2: Eco RI; 1st strand cDNA was primed with a Not I - Oligo(dT) Primer, double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified pT7T3 vector. mRNA source: 2 pooled kidneys. Library went through one round of normalization. Library constructed by Bento Soares and M. Fatima Bonaldo."

ORIGIN
 Query Match Score 3.8%; Best Local Similarity 71.4%; Matches 25; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

KEYWORDS
 AU105998 Sugano Homo sapiens cDNA library

ACCESSION
 AU105998

VERSION
 GI:13555519

EST.
 Homo sapiens (human)

ORGANISM
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Buteraria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE
 1. (bases 1 to 50)
 Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Shioya,H., Ota,T., Isouai,T., Tanaka,T., Morishita,S., Okubo,K., Sakaki,Y., Nakamura,Y., Suyama,A. and Sugano,S.

AUTHORS
 Suzuki, Y., Taira, H., Tsunoda, T., Mizushima-Sugano, J., Sese, J., Shioya, H., Ota, T., Isouai, T., Tanaka, T., Morishita, S., Okubo, K., Sakaki, Y., Nakamura, Y., Suyama, A. and Sugano, S.

TITLE
 Diverse transcriptional initiation revealed by fine, large-scale mapping of mRNA start sites

JOURNAL
 EMBO Rep. 2 (5), 388-393 (2001.)

MEDLINE
 21270072

PUBMED
 11375929

COMMENT
 Contact: Yukata Suzuki
 Department of Virology
 Institute of Medical Science, University of Tokyo
 A-6-1, Shirokanedai, Minato-ku, Tokyo 108-8639, Japan
 Email: ysuzuki@ims.u-tokyo.ac.jp
 Suzuki, Y., Yoshitomo-Nakagawa, K., Maruyama, K., Suyama, A. and Sugano, S. Construction and characterization of a full-length-enriched and a 5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).

FEATURES
 source
 1. .50
 /organism="Homo sapiens"
 /mol_type="mRNA"

/db_xref="taxon:9606"
 /clone="W0521."
 /clone_lib="Sugano Homo sapiens cDNA library"

ORIGIN
 Query Match Score 18.8%; Best Local Similarity 63.0%; Matches 29; Conservative 0; Mismatches 17; Indels 0; Gaps 0;

KEYWORDS
 38 GCTTCAGCCATGCCGACCGGAGCCGGAGCAGGAGGACCC 83
 Db 1 GTTGGTGCGAGGTGGCGGAGCTGGCGCTGCC 46

RESULT 11
 BF343276/c
 LOCUS BP343276 NCI CGAP_Brn64 40 bp mRNA linear EST 22-NOV-2000
 DEFINITION 602015335F1 Homo sapiens cDNA clone IMAGE:4151432
 5 / mRNA sequence.
 BP343276
 VERSION BP343276.1 GI:11290436
 EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 KEYWORDS
 1 (bases 1 to 40)
 REFERENCE
 AUTHORS NIH-MGC http://mgc.ncbi.nlm.nih.gov/
 TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
 JOURNAL Unpublished (1999)
 COMMENT Contact: Robert Strausberg, Ph.D.
 Email: cgabbs-re@mail.nih.gov
 Tissue Procurement: David N. Louis, M.D.
 CDNA Library Preparation: Life Technologies, Inc.
 DNA Sequencing by: Incyte Genomics, Inc.
 Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LINL at:
<http://image.llnl.gov>
 Plate: LLAM416 row: f column: 09
 High quality sequence stop: 38.
 Location/Qualifiers
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 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="IMAGE:4151432"
 /tissue_type="Globoblastoma with EGFR amplification"
 /lab_host="DH10B (T1 phage-resistant)"
 /clone_lib="NCI CGAP_Brn64"
 /note="Organ: brain; Vector: pCMV-SPORT6; Site_1: NotI; Site_2: Sall; Cloned unidirectionally; Primer: Oligo dT. Average insert size 1.57 kb. Constructed by Life Technologies. Note: this is a NCI CGAP Library."

ORIGIN
 Query Match Score 18.6%; Best Local Similarity 72.7%; Matches 24; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

KEYWORDS
 140 GGGCTGCAACCGGACCGGCTGCTACGGCTGCC 172
 Db 33 GGAGCTGAGCGACCGCTGGACCGAGGCC 1

RESULT 12
 AA921726/c
 LOCUS AA921726.61 NCI CGAP_CoB Homo sapiens cDNA clone IMAGE:145187
 DEFINITION oh8d05.oh8d05 similar to TR:015551 RAT VENTRAL PROSTATE.1 HOMOLOG. ; mRNA sequence.
 ACCESSION AA921726
 VERSION GI:3068914

KEYWORDS	EST, Homo sapiens (human)	PUBMED	11375929
ORGANISM	Homo sapiens	COMMENT	Contact: Yutaka Suzuki Department of Virology Institute of Medical Science, University of Tokyo 4-6-1, Shirokanedai, Minato-ku, Tokyo 108-8639, Japan Email: ysuzuki@ims.u-tokyo.ac.jp
REFERENCE	Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. 1 (bases 1 to 49)	Suzuki,Y., Yoshitomo-Nakagawa,K., Maruyama,K., Suyama,A. and Sugano,S.. Construction and characterization of a full length-enriched and a 5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).	
AUTHORS		FEATURES	Location/Qualifiers
TITLE	NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.	source	1..50 'organism="Homo sapiens'" 'mol type="mRNA'" 'db Xref="taxon:9606'" 'clone lib="Sugano Homo sapiens cDNA library'"
NATIONAL CANCER INSTITUTE, Cancer Genome Anatomy Project (CGAP), Tumor Gene Index	National Cancer Institute, Cancer Genome Anatomy Project (CGAP), Tumor Gene Index	ORIGIN	Query Match 3.7%; Score 18.6; DB 9; Length 50; Best Local Similarity 61.2%; Pred. No. 2.3e+06; Matches 30; Conservative 0; Mismatches 19; Indels 0; Gaps 0;
Unpublished (1997)	Unpublished (1997)	Qy	40 TTCCGCCATGCCGACCCGAGACGGAGCGGAGCCGAGCCGGCTG 88
COMMENT	Contact: Robert Strausberg, Ph.D. Email: cgaps-request.nih.gov	Db	49 TACCAAGCCGGCCCTTGTGAGCAGCAGCCGGAGCGGAGACGGTG 1
Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R. Emmert-Buck, M.D., Ph.D.		RESULT 14	
CDNA Library Preparation: M. Bento Soares, Ph.D.		AU104470	AU104470 Sugano Homo sapiens mRNA linear EST 30-AUG-2001
CDNA Library Arrayed by: Greg Lennon, Ph.D.		LOCUS	50 bp Sugano Homo sapiens cDNA library Homo sapiens cDNA clone KATO2059, mRNA sequence.
DNA Sequencing by: Washington University Genome Sequencing Center		DEFINITION	AU104470
Clone distribution: NCI-CGAP clone diversity distribution information can be found through the IMA-G-B Consortium/LINL at: www-bio.llnl.gov/bbcr/image/image.html		ACCESSION	GI:13553991
		VERSION	
		KEYWORDS	
		ORGANISM	Homo sapiens (human)
		SOURCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo.
		REFERENCE	1 (bases 1 to 50)
		AUTHORS	Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata,H., Ota,T., Isogai,T., Tanaka,T., Morishita,S., Okubo,K., Sakaki,Y., Nakamura,Y., Suyama,A. and Sugano,S.
		TITLE	Diverse transcriptional initiation revealed by fine, large-scale mapping of mRNA start sites
		JOURNAL	EMBO Rep. 2 (5), 388-393 (2001)
		MEDLINE	21270072
		PUBMED	11375929
		COMMENT	Contact: Yutaka Suzuki Department of Virology Institute of Medical Science, University of Tokyo 4-6-1, Shirokanedai, Minato-ku, Tokyo 108-8639, Japan Email: ysuzuki@ims.u-tokyo.ac.jp
		ORIGIN	Suzuki,Y., Yoshitomo-Nakagawa,K., Maruyama,K., Suyama,A. and Sugano,S.. Construction and characterization of a full length-enriched and a 5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).
		FEATURES	Location/Qualifiers
		source	1..50 'organism="Homo sapiens'" 'mol type="mRNA'" 'db Xref="taxon:9606'" 'clone lib="Sugano Homo sapiens cDNA library'"
		ORIGIN	Query Match 3.7%; Score 18.6; DB 9; Length 50; Best Local Similarity 65.9%; Pred. No. 2.3e+06; Matches 27; Conservative 0; Mismatches 14; Indels 0; Gaps 0;
		Qy	30 CGACAGCCGTGCGCTCCAGTCAGTTCTCTGT 343
REFERENCE	1 (bases 1 to 50)		
AUTHORS	Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata,H., Ota,T., Isogai,T., Tanaka,T., Morishita,S., Okubo,K., Sakaki,Y., Nakamura,Y., Suyama,A. and Sugano,S.		
TITLE	Diverse transcriptional initiation revealed by fine, large-scale mapping of mRNA start sites		
JOURNAL	EMBO Rep. 2 (5), 388-393 (2001)		
MEDLINE	21270072		

Tue May 20 10:20:40 2002

Db

1 CGAGTTGACATGGCGGAGCTGGGTGTCGTCGT 41

RESULT 15
 AU105005/C
 LOCUS AU105005 Sugano Homo sapiens 50 bp mRNA linear EST 30-AUG-2001
 DEFINITION ADSE01748, mRNA sequence.
 ACCESSION AU105005
 VERSION AU105005.1 GI:13554526
 KEYWORDS EST
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.
 REFERENCE 1 (bases 1 to 50)
 AUTHORS Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J.,
 Hata,H., Ota,T., Isogai,T., Tanaka,T., Morishita,S., Okubo,K.,
 Sakaki,Y., Nakamura,Y., Shiyama,A. and Sugano,S.
 TITLE Diverse transcriptional initiation revealed by fine, large-scale
 mapping of mRNA start sites
 JOURNAL NBO Rep. 2 (5), 388-393 (2001)
 MEDLINE 21270072
 PUBMED 11375929
 COMMENT Contact: Yutaka Suzuki
 Department of Virology
 Institute of Medical Science, University of Tokyo
 4-6-1, Shirokanedai, Minato-ku, Tokyo 108-8639, Japan
 Email: yutaku@ims.u-tokyo.ac.jp
 Sugano,S., Yoshihomo-Nakagawa,K., Maruyama,X., Shiyama,A. and
 Sugano,S. Construction and characterization of a full
 length-enriched and a 5'-end-enriched cDNA library. Gene 200 (1-2),
 149-156 (1997).
 FEATURES Location/Qualifiers
 source 1..50
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="ADSE01748"
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 Query Match 3.7%; Score 18.6; DB 9; Length 50;
 Best Local Similarity 65.9%; Pred. No. 2.3e+06;
 Matches 27; Conservative 0; Mismatches 14; Indels 0; Gaps 0;
 Qy 5B CGGAGAGCGAGGCCGAGGAGACCCGGTGGCCCTCA 98
 Db 41 CGGGTTCTAAGGCTCCAGACCCGGTGGCCGTTA 1

Search completed: May 26, 2004, 09:17:50
 Job time : 3459.26 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: May 26, 2004, 05:10:28 ; Search time 1630.25 Seconds

(without alignments)

5822.506 Million cell updates/sec

Title: US-10-048-046-1_COPY_181_399

Perfect score: 219

Sequence: 1 gtccttgtggaaaggggaa.....tacagactggatgtcatc 219

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 3470272 seqs, 2161516995 residues

Total number of hits satisfying chosen parameters:

1603530

Minimum DB seq length: 0

Maximum DB seq length: 50

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : GenBmb1,*

1: gb_bp;*

2: gb_ntg;*

3: gb_in;*

4: gb_on;*

5: gb_ov;*

6: gb_dat;*

7: gb_ph;*

8: gb_dp;*

9: gb_pr;*

10: gb_ro;*

11: gb_sts;*

12: gb_sy;*

13: gb_un;*

14: gb_vl;*

15: em_ba;*

16: em_fun;*

17: em_num;*

18: em_in;*

19: em_mu;*

20: em_on;*

21: em_or;*

22: em_ov;*

23: em_dat;*

24: em_ph;*

25: em_dp;*

26: em_ro;*

27: em_sts;*

28: em_n;*

29: em_v1;*

30: em_ntg_hum;*

31: em_ntg_inv;*

32: em_ntg_other;*

33: em_ntg_mus;*

34: em_ntg_pn;*

35: em_ntg_rnd;*

36: em_ntg_mam;*

37: em_ntg_vrt;*

38: em_sy;*

39: em_ntgo_hum;*

40: em_ntgo_mus;*

41: em_ntgo_other;*

score greater than or equal to the score of the result being printed,
 and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Query	Score	Match	Length	DB ID	Description
1	19.8	9.0	50	6	AX165857	AX165857 Sequence 46
2	19.4	8.9	40	6	AB31617	AB31617 Sequence 46
c	3	19	47	6	AX194693	AX194693 Sequence
c	4	18.8	8.6	38	AB013934	AB013934 Sequence
c	5	18.4	8.4	38	AR020204	AR020204 Sequence
c	6	18.4	8.4	38	AR032156	AR032156 Sequence
c	7	18.4	8.4	38	AR043821	AR043821 Sequence
c	8	18.4	8.4	38	AR072133	AR072133 Sequence
c	9	18.4	8.4	38	AR095987	AR095987 Sequence
c	10	18.4	8.4	38	AR136647	AR136647 Sequence
c	11	18.4	8.4	38	AR157182	AR157182 Sequence
c	12	18.4	8.4	38	AR164131	AR164131 Sequence
c	13	18.4	8.4	38	I32817	I32817 Sequence 13
c	14	18.4	8.4	38	I59631	I59631 Sequence 13
c	15	18.4	8.4	38	AX127254	AX127254 Sequence
c	16	18.4	8.4	38	AX800785	AX800785 Sequence
c	17	18.4	8.4	46	I18512	I18512 Sequence 12
c	18	18.4	8.4	46	AR289961	AR289961 Sequence
c	19	18.2	8.3	43	BD174678	BD174678 Ribozyme
c	20	18	8.2	29	BD140120	BD140120 Secreted
c	21	18	8.2	42	AX328821	AX328821 Sequence
c	22	18	8.2	42	BD132396	BD132396 DNA diagram
c	23	18	8.2	50	E44269	E44269 Oligo-DNA s
c	24	18	8.2	50	AX697058	AX697058 Sequence
c	25	17.8	8.1	49	AR032442	AR032442 Sequence
c	26	17.8	8.1	49	I29182	I29182 Sequence 54
c	27	17.8	8.1	49	I90856	I90856 Sequence 54
c	28	17.8	8.1	49	AR209106	AR209106 Sequence
c	29	17.6	8.0	40	AX060727	AX060727 Sequence
c	30	17.6	8.0	40	AX060906	AX060906 Sequence
c	31	17.6	8.0	41	AX518097	AX518097 Sequence
c	32	17.4	7.9	41	AX513875	AX513875 Sequence
c	33	17.4	7.9	41	AX519151	AX519151 Sequence
c	34	17.4	7.9	47	AR284501	AR284501 Sequence
c	35	17.4	7.9	50	AR032934	AR032934 Sequence
c	36	17.4	7.9	50	I29674	I29674 Sequence 54
c	37	17.4	7.9	50	I19348	I19348 Sequence 54
c	38	17.4	7.9	50	AR209398	AR209398 Sequence
c	39	17.2	7.9	38	AR210306	AR210306 Sequence
c	40	17.2	7.9	38	AX402734	AX402734 Sequence
c	41	17.2	7.9	41	AR061380	AR061380 Sequence
c	42	17.2	7.9	41	AR108279	AR108279 Sequence
c	43	17.2	7.9	41	I16236	I16236 Sequence 62
c	44	17.2	7.9	41	I66722	I66722 Sequence 62
c	45	17.2	7.9	41	I84816	I84816 Sequence 62

ALIGNMENTS

RESULT 1	LOCUS	DEFINITION	SEQUENCE	VERSION	KEYWORDS
AX165857		Sequence 1052 from Patent WO0138586.			SOURCE
		AX165857			ORGANISM
			AX165857		Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
			AX165857.1	GI:14546686	REFERENCE
					AUTHORS
					Shimkets, R.A. and Leach, M.
					TITLE
					Nucleic acids containing single nucleotide polymorphisms and methods of use thereof

Pred. No. is the number of results predicted by chance to have a

JOURNAL Patent: WO 0138586-A 1052 31-MAY-2001;
 Curagen Corporation (US)
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 /organism="Homo sapiens"
 /mol_type="unassigned DNA"
 /db_xref="taxon:9606"
 misc_feature 25. .26
 /note="Nucleotide deleted between bases 25 and 26
 Accession number cg44004690"
 variation 26
 /note="single nucleotide polymorphism"
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 Best Local Similarity 69.2%; Pred. No. 2.3e+05;
 Matches 27; Conservative 0; Mismatches 12; Indels 0; Gaps 0;
 Qy 9 GAGGAAGCGGCACTGGACCATCGGGGAAACGAGTTG 47
 Db 1 GAGGGAGGGAGGTGGAGGGAGGGAGAAGGGATG 39
 RESULT 2
 A83617 LOCUS A83617 Sequence 46 from Patent WO9849324. DNA linear PAT 21-JAN-2000
 DEFINITION Sequence 46 from Patent WO9849324.
 ACCESSION A83617
 VERSION A83617.1 GI:6732869
 KEYWORDS unidentified
 SOURCE unidentified
 ORGANISM unidentified
 REFERENCE 1. (bases 1 to 40)
 AUTHORS Matthijs,G.
 TITLE CARBOHYDRATE-DEFICIENT GLYCOPROTEIN SYNDROME TYPE I
 JOURNAL Patent: WO 9849324-A 46 05-NOV-1998;
 FEATURES MARTHIJS GERT (BE); GENZYME LTD (GB)
 source 1..40
 /organism="unidentified"
 /mol_type="unassigned DNA"
 /db_xref="taxon:32644"
 ORIGIN
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 Best Local Similarity 79.3%; Pred. No. 3.1e+05;
 Matches 23; Conservative 0; Mismatches 6; Indels 0; Gaps 0;
 Qy 97 ATTTGACTGGTGAATAATTCAAGGTCAAGT 125
 Db 4 ATTTGACTGGTGAATAATTCAAGGT 32
 RESULT 3
 AX194693/C LOCUS AX194693 Sequence 163 from Patent WO0151659. DNA linear PAT 28-AUG-2001
 DEFINITION Sequence 163 from Patent WO0151659.
 ACCESSION AX194693
 VERSION AX194693.1 GI:15385340
 KEYWORDS Homo sapiens (human)
 SOURCE Homo sapiens
 ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates;
 REFERENCE 1. Chu,T., Blumenfeld,M. and Cohen,D.
 AUTHORS Biallelic markers derived from genomic regions carrying genes
 /note="involved in central nervous system disorders"
 JOURNAL Patent: WO 0151659-A 163 19-JUL-2001;
 GENSET (FR)
 FEATURES Location/Qualifiers
 source 1..47

Db 38 AATTAACTGATATAACTAGCTTATCGATGATAG 3
 RESULT 11
 AR157182/c LOCUS AR157182 Sequence 13 from patent US 6242667. DNA linear PAT 08-AUG-2001
 DEFINITION Sequence 13 from patent US 6242667.
 ACCESSION AR157182
 VERSION AR157182.1 GI:15125886
 KEYWORDS Unknown.
 SOURCE Unspecified.
 ORGANISM Unspecified.
 REFERENCE 1 (bases 1 to 38)
 AUTHORS Bujard,H. and Gossen,M.
 TITLE Transgenic organisms having tetracycline-regulated transcriptional regulatory systems
 JOURNAL Patent: US 6242667-A 13 05-JUN-2001;
 FEATURES source 1..38
 /organism="unknown"
 /mol_type="unassigned DNA"
 ORIGIN
 Query Match 8.4%; Score 18.4; DB 6; Length 38;
 Best Local Similarity 69.4%; Pred. No. 6.7e+05;
 Matches 25; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
 Qy 148 AGTGGACAGTGATTAACAGCTGAGGTCTTAAG 183
 Db 38 AATTAACTGATATAACTAGCTTATCGATGATAG 3
 RESULT 12
 AR164131/c LOCUS AR164131 Sequence 13 from patent US 6271348. DNA linear PAT 17-OCT-2001
 DEFINITION Sequence 13 from patent US 6271348.
 ACCESSION AR164131
 VERSION AR164131.1 GI:16235083
 KEYWORDS Unknown.
 SOURCE Unspecified.
 ORGANISM Unspecified.
 REFERENCE 1 (bases 1 to 38)
 AUTHORS Bujard,H. and Gossen,M.
 TITLE Tetracycline-inducible transcriptional inhibitor fusion proteins
 JOURNAL Patent: US 6271348-A 13 07-AUG-2001;
 FEATURES source 1..38
 /organism="unknown"
 /mol_type="unassigned DNA"
 ORIGIN
 Query Match 8.4%; Score 18.4; DB 6; Length 38;
 Best Local Similarity 69.4%; Pred. No. 6.7e+05;
 Matches 25; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
 Qy 148 AGTGGACAGTGATTAACAGCTGAGGTCTTAAG 183
 Db 38 AATTAACTGATATAACTAGCTTATCGATGATAG 3
 RESULT 13
 I32817/c LOCUS I32817 Sequence 13 from patent US 5589362. DNA linear PAT 06-FEB-1997
 DEFINITION Sequence 13 from patent US 5589362.
 ACCESSION I32817
 VERSION I32817.1 GI:1823608
 KEYWORDS Unknown.
 SOURCE Unspecified.
 ORGANISM Unspecified.
 REFERENCE 1 (bases 1 to 38)

AUTHORS Bujard,H.; Gossen,M.; Hillen,W.; Helbig,V. and Schnappinger,D.
 TITLE Tetracycline regulated transcriptional modulators with altered DNA binding specificities
 JOURNAL Patent: US 5589362-A 13 31-DEC-1996;
 FEATURES Location/Qualifiers
 source 1..38
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 Matches 25; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
 Qy 148 AGTGGACAGTGATTAACAGCTGAGGTCTTAAG 183
 Db 38 AATTAACTGATATAACTAGCTTATCGATGATAG 3
 RESULT 14
 I59631/c LOCUS I59631 Sequence 13 from patent US 5654168. DNA linear PAT 07-OCT-1997
 DEFINITION Sequence 13 from patent US 5654168.
 ACCESSION I59631
 VERSION I59631.1 GI:2478263
 KEYWORDS Unknown.
 SOURCE Unknown.
 ORGANISM Unclassified.
 REFERENCE 1 (bases 1 to 38)
 AUTHORS Bujard,H. and Gossen,M.
 TITLE Tetracycline-inducible transcriptional activator and tetracycline-regulated transcription units
 JOURNAL Patent: US 5654168-A 13 05-AUG-1997;
 FEATURES Location/Qualifiers
 source 1..38
 /organism="unassigned DNA"
 /mol_type="unassigned DNA"
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 Query Match 8.4%; Score 18.4; DB 6; Length 38;
 Best Local Similarity 69.4%; Pred. No. 6.7e+05;
 Matches 25; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
 Qy 148 AGTGGACAGTGATTAACAGCTGAGGTCTTAAG 183
 Db 38 AATTAACTGATATAACTAGCTTATCGATGATAG 3
 RESULT 15
 AX127254/c LOCUS AX127254 Sequence 13 from Patent EP1092771.
 DEFINITION Sequence 13 from Patent EP1092771.
 ACCESSION AX127254
 VERSION AX127254.1 GI:14133334
 KEYWORDS Unknown.
 SOURCE unidentified
 ORGANISM unidentified
 REFERENCE 1
 AUTHORS Bujard,H. and Gossen,M.
 TITLE Tetracycline-regulated transcriptional modulators
 JOURNAL Patent: EP 1092771-A 13 18-APR-2001;
 BASF AKTIENGESSELLSCHAFT (DE) ; KNOLL AKTIENGESSELLSCHAFT (DE)
 FEATURES Location/Qualifiers
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 /db_xref="taxon:32644"
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 Best Local Similarity 69.4%; Pred. No. 6.7e+05;

	Matches	25;	Conservative	0;	Mismatches	11;	Indels	0;	Gaps	0;
Qy	148	AGTGGAAACAGTGATTAAACAAGCTGAAGGTGTTAAG								183
Db	38	AATTAACTGTGATAAACTAGCTTATCGATGATAAG								3

Search completed: May 26, 2004, 07:39:16
Job time : 1632.25 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: May 26, 2004, 05:01:38 ; Search time 184.951 Seconds
(without alignments)

5030.293 Million cell updates/sec

Title: US-10-048-046-1_COPY_181_399

Perfect score: 219

Sequence: 1 gtcctctggaaaggggaa.....tacagactggggatgtccat 219

Scoring table: IDENTITY NJC Gapop 10.0 , Gapext 1.0

Searched: 3373863 seqs, 2124099041 residues

Total number of hits satisfying chosen parameters:

3185356

Minimum DB seq length: 0

Maximum DB seq length: 50

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : N_Geneseq_29Jan04:*
1: Geneseqn1980s:
2: Geneseqn1990s:
3: Geneseqn2000s:
4: Geneseqn2001as:
5: Geneseqn2001bs:
6: Geneseqn2002s:
7: Geneseqn2003as:
8: Geneseqn2003bs:
9: Geneseqn2003cs:
10: Geneseqn2004s:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
c 1	20.2	9.2	50 4 AAL29957	Aal129957 Human SNP
c 2	20	9.1	28 5 AAF3055	Aaf3055 Human Che
c 3	19.8	9.0	50 5 ABLC1061	Abi1061 Human Snp
c 4	19.2	8.8	41 6 ABV76334	Abv76434 Human DNA
c 5	19	8.7	47 4 AHH88323	Ahh88323 CNS disbor
c 6	18.8	8.6	38 2 AAV35018	Aav35018 Human end
c 7	18.8	8.6	47 3 AAZ67349	Aaz67349 Human map
c 8	18.4	8.4	38 2 AT11362	Aat11362 Class C T
c 9	18.4	8.4	38 2 AT45713	Aat15713 Class C T
c 10	18.4	8.4	38 2 AAV60085	Aav0085 Class C C
c 11	18.4	8.4	38 2 AIX60051	Aax60051 Class C T
c 12	18.4	8.4	38 3 AAZ56132	Aazi6132 Class C T
c 13	18.4	8.4	38 4 AAC61972	Aac61972 Nucleotid
c 14	18.4	8.4	38 4 AAH47637	Aah47637 Nucleotid
c 15	18.4	8.4	38 5 AAH25579	Aah25578 Nucleotid
c 16	18.4	8.4	38 6 ABK98648	Abk98648 Sequence
c 17	18.4	8.4	38 7 AC94740	Aca94740 Class C T
c 18	18.4	8.4	38 7 AAX16493	Abx16493 Tet opera
c 19	18.4	8.4	38 8 ACD13899	Acd13899 Tetraacycl
c 20	18.4	8.4	38 9 ADP52396	Adp52396 Tet opera
c 21	18.4	8.4	46 2 AAT08997	Aat08997 Insulin r
c 22	18.4	8.4	50 4 AAL28949	Aal28949 Human SNP
c 23	18.4	8.4	50 6 ABB04239	Abb04239 Human leu

ALIGNMENTS

ABZ03712 Human leu
ABZ03712 Human leu
Add28164 Reticuloc
AAL53837 Human cyc
ABZ21215 Nucleotid
Abz04919 Human leu
ABZ06364 Human leu
Abz06168 Human leu
AAK90453 Human sec
AAS59360 Human sec
Abz91029 Biotinylal
AAV39800 Oligonucle
Aaa52375 HCV RNA P
Aaa37201 Human PRO
Aa134067 Human SNP
Aaf54292 Probe #22
ACD68329 Novel hum
Ach04431 Human sec
Acd67975 Novel hum
Adc1795 Human PRO
Add70641 Human sec
Add39718 Human sec
Add70164 Human sec

RESULT 1
AAL29957/C
ID AAL29957 standard; DNA; 50 BP.
XX

AAL29957;

XX DT 24-JAN-2002 (first entry)

XX DB Human SNP Oligonucleotide #3165.

XX Immunosuppressive; immunostimulatory; antiinflammatory; cyrostatic; neuroprotective; antimicrobial; gene therapy; vaccine; amylase; cancer; amyloid protein; angiopoietin; apoptosis related protein; cathearin; cyclin; polymerase; oncogene; histone; kinase; colony stimulating factor; complement related protein; cytochrome; kinase; interferon; interleukin; G-Protein coupled receptor; thioesterase; inflammation; multifactorial disease; autoimmune disease; infection; nervous system disease; ss.

XX Homo sapiens.

OS XX WQ200147944-A2.

XX XX 05-JUL-2001.

XX PF 28-DEC-2000; 2000WO-US035498.

XX PR 28-DEC-1999; 99US-0173419P.

XX PR 27-DEC-2000; 2000US-00173419.

XX PA (CURA-) CURAGEN CORP.

XX PI Shimkets RA, Leach M;

XX DR WPI; 2001-465210/50.

XX PT Polymorphic nucleic acids encoding e.g. amylases, cyclins, polymerases, oncogenes and histones, useful for diagnosing and treating, e.g. cancer,

PT variants of proteins related to amyloses, amyloid proteins, angiopoietin,

CC CC apoptosis related proteins, cathearin, cyclin, polymerase, oncogenes,

CC CC kinases, colony stimulating factors, complement related

CC CC histones, kinases, colony stimulating factors, complement

CC CC diseases and infections.

XX Claim 1; Page 2293; 4143pp; English.

XX PS

XX XX

XX The present invention relates to oligonucleotides encoding polymorphic

CC variants of proteins related to amyloses, amyloid proteins, angiopoietin,

CC apoptosis related proteins, cathearin, cyclin, polymerase, oncogenes,

CC kinases, colony stimulating factors, complement

CC diseases and infections.

Best Local Similarity Matches	69.2% ; 27; Conservative	Pred. No. 9.5e+03 ; 0; Mismatches 12;	Indels 0; Gaps 0;	DB XX	CNS disorder-related biallelic marker #24 from CRFR1 gene.
Qy 9	GAGGAAGGGGAGTGGACCATCGGCCGAGAGGTG 47			KW XX	Single nucleotide polymorphism; SNP; biallelic marker; human;
Db 1	GACGAGGGAGGTGGACGAGGGCAAGAGGGATG 39			KW XX	central nervous system disorder; CNS; CRFR1;
				KW XX	corticotrophin releasing factor receptor 1; db.
				OS XX	Homo sapiens.
RESULT 4				Key XX	Location/Qualifiers
ABY76434/C				FH 24	/standard_name= "single nucleotide polymorphism"
ID ABY76434 standard; DNA; 41 BP.				FT FT	/tag= a
AC XX				XX XX	WO200151659-A2.
XX DT 20-FEB-2003 (first entry)				XX PD 19-JUL-2001.	
DE Human DNA CGG repeat binding protein 10.23 probe, SEQ ID NO:9.				XX PP 11-JAN-2001; 2001WO-IB000016.	
XX KW Human; DNA CGG repeat binding protein 10.23; recombinant production; gene therapy; embryonic development disorder; tumour; cancer; cytostatic; probe; ss.				XX PR 13-JAN-2000; 2000US-0175854P.	
XX OS Homo sapiens.				XX PA (GEST) GENSET.	
XX PI Chu T, Blumenfeld M, Cohen D;				XX PI	
PN CN1343717-A.				XX DR 2001-483085/52.	
XX PD 10-APR-2002.				XX PT Isolated polynucleotides, useful for genotyping nucleic acids for biallelic markers for the diagnosis of depression, comprises central nervous system disorder related biallelic marker.	
XX PF 19-SEP-2000; 2000CN-00125256.				XX PT	
XX PR 19-SEP-2000; 2000CN-00125256.				XX PT	
XX PA (BODE-) BODE GENE DEV CO LTD SHANGHAI.				XX PS Claim 1; Page 277; 519PP; English.	
XX PI Mao Y, Xie Y;				XX CC The present invention relates to biallelic markers derived from human genes involved in central nervous system (CNS) disorders. The present sequence is one such biallelic marker derived from human corticotrophin releasing factor receptor 1 (CRFR1) gene. CRF is a hormone released by the hypothalamus and stimulates the release of corticotrophin by the anterior pituitary gland. This marker has a single nucleotide polymorphism (SNP) and is useful in determining the generic predisposition of individuals to CNS disorders, by identifying the nucleotides at a set of genetic markers in a biological sample, where the markers comprise at least one CNS disorder related marker	
XX WPI; 2002-548885/59.				XX SQ Sequence 47 BP; 15 A; 8 C; 14 G; 9 T; 0 U; 1 Other;	
XX DR 2002-548885/59.				XX SQ Query Match 8.7%; Score 19; DB 4; Length 47;	
PT A novel human DNA CGG-like repeated binder 10.23 polypeptide, useful for treating several diseases e.g. embryo development deformity and tumors.				XX DR Best Local Similarity 67.6%; Pred. No. 1.7e+04;	
PT Example 6; Page 22 (Disclosure); 35PP; Chinese.				XX DR Matches 25; Conservative 1; Mismatches 11; Indels 0; Gaps 0;	
XX PS The invention relates to human DNA CGG repeat binding protein 10.23 (ABP58472) and nucleic acids encoding it (ABY76432). The protein has a molecular weight of 10.23 kD. The invention also relates to a method for the recombinant production of the protein, an antagonist of the protein, and the use of the protein, gene and antagonist in the therapeutic applications. DNA CGG repeat binding protein 10.23 can be used in the treatment of a variety of diseases such as embryonic development disorders and tumors. Sequences ABY76433-ABY76434 represent human DNA CGG repeat binding protein 10.23 probes used in an exemplification of the invention.				Qy 170 TGAGGTTGTTAAGGGAGACATGCCCTTAGAC 206	
XX SQ Sequence 41 BP; 12 A; 11 C; 6 G; 12 T; 0 U; 0 Other;				Db 38 TGTGAGTTGTTAAGGGAGACATGCCCTAGAC 2	
Query Match 8.8%; Score 19.2; DB 6; Length 41;				Db RESULT 6	
Best Local Similarity 67.5%; Pred. No. 1.4e+04;				AAV35018/c	
Matches 27; Conservative 0; Mismatches 13; Indels 0; Gaps 0;				ID AAV35018 standard; DNA; 38 BP.	
Qy 149 GTGGAACAGTGATTAAAGCTGAAGGTGTTAGAAGGCA 188				XX AC AAV35018;	
Db 40 GTGTAGCATGGTGTAAAAAGTCACCTTCCATAAGAGCA 1				DT 27-AUG-1998 (first entry)	
				XX DE Human endothelin-beta 1 receptor PCR primer Vet122.	
				XX KW Endothelin beta-1 receptor; ETB-1; screening; signal transduction;	
				ID KW agonist; antagonist; vasoconstrictor; vasopressor; cardiogenic shock;	
				XX KW pulmonary hypertension; acute myocardial infarct; uraemia; vasculitis;	
				KW Crohn's disease; ulcerative colitis; sepsis; congestive heart failure; coronary spasm; cyclosporin nephrotoxicity; toxæmia; PCR primer; ss.	
				XX OS Synthetic.	
				OS OS Homo sapiens.	

XX US5773223-A. PF 21-APR-1999; 99WO-IB000822.
 XX PR 21-APR-1998; 98US-0082614P.
 PD 30-JUN-1998. PR 23-NOV-1998;
 XX PR 02-SEP-1993; 93US-00117361. XX PA (GEST) GENSET.
 XX PR 02-SEP-1993; 93US-00117361. XX PI Cohen D, Blumenfeld M, Chumakov I;
 XX PA (CHIR) CHIRON CCRP. XX DR WPI: 2000-013267/01.
 PI Shyamala V, Olson PT. XX Novel biallelic markers used to construct a high density disequilibrium map of the human genome.
 DR WPI; 1998-386992/33. PT
 PT Screening for modulators of the endothelin B1 receptor - by measuring effect on signal transduction in cells engineered to express the receptor, potentially useful as agonists and antagonists of endothelin.
 Example 2; Col 19; 23PP; English.
 PS AAV35002-V35021 are primers used to amplify and isolate a novel human endothelin-betai receptor (ETB-1) which corresponds to a decapeptide insert. This sequence is used in a method involving the screening of compounds for their ability to bind to endothelin B1 (ETB1) receptor polypeptide and to modulate its signal transduction activity by applying test compound to host cells transformed with DNA encoding ETB-1 and optionally lysing the cells and then measuring signal transduction activity. The method is used to identify agonists and antagonists of endothelin (ET), a known vasoconstrictor/vasopressor agent, associated with cardiogenic shock, pulmonary hypertension, acute myocardial infarct, uremia, Crohn's disease, ulcerative colitis, sepsis, congestive heart failure, coronary spasm, cyclosporin nephrotoxicity, vasculitis and toxæmia in pregnancy, and is also present at elevated levels after orthotopic liver transplantation and major abdominal surgery
 Sequence 38 BP; 9 A; 7 C; 5 G; 17 T; 0 U; 0 Other;
 SQ Query Match 8.6%; Score 18.8; DB 2; Length 38;
 Best Local Similarity 68.4%; Prod. No. 1.9e+06; ID 0; Indels 0; Gaps 0;
 Matches 26; Conservative 0; Mismatches 12; DB 0;
 QY 65 GCATAAACTGGTCTCTGGAGATCACTGTAGATTGTA 102
 DB 38 GCAACAGGCTCGATACTCGAAGATAAAAATGAGTTGTA 1
 RESULT 7 AA267349 ID AA267349 standard; DNA; 47 BP.
 XX AC AAZ67349;
 XX DT 10-SEP-2001 (first entry)
 DE Human map-related biallelic marker SEQ ID NO:1696.
 XX KW Human genome; biallelic marker; high density disequilibrium map; genomic map; haplotype; phenotype; polymorphic base; genotyping; haplotyping; hybridisation; identification; characterisation; diagnosis; single nucleotide polymorphism; SNP; ds.
 OS Homo sapiens.
 XX FF Key location/Qualifiers variation replace(24, G)
 FT /*tag= a /standard_name= "single nucleotide polymorphism"
 XX PN WO9954500-A2.
 XX PR 01-JUL-1994; 94US-00270637.
 FT PR 15-JUL-1994; 94US-00275876.
 XX PR 03-FEB-1995; 95US-00383754.
 PR 07-JUN-1995; 95US-00486814.
 PA (BUJAR/) BUJARD H.
 PA (GOSS/) GOSSEN M.
 XX

PI Bujard H, Gossen M;
 XX WPI; 1996-087666/09.

XX New tetracycline-regulated transcription modulators - comprising fusion proteins which bind to tet operator sequences to activate or inhibit transcription.

PS Disclosure; Page 76; 112pp; English.

Fusion proteins comprising a first polypeptide which binds to a tet operator sequence in the presence of tetracycline or a tetracycline analogue, operatively linked to a second polypeptide which either activates or inhibits transcription in eukaryotic cells may be used to activate or inhibit transcription. Such proteins may be used to regulate gene expression in cells and may be particularly useful for gene therapy and for expression of gene products in transgenic organisms. Induction of gene expression is rapid, efficient and strong, typically 1000-2000 fold. The inducing agent does not cause pleiotropic effects or cytotoxicity in eukaryotic cells. The sequences of the different classes of tet operator sequences are described in AAT11360-64)

XX Sequence 38 BP; 13 A; 6 C; 5 G; 14 T; 0 U; 0 Other;

SQ Query Match 8.4%; Score 18.4%; DB 2; Length 38;
 Best Local Similarity 69.4%; Pred. No. 2.6e+04;
 Matches 25; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy 148 AGTGGAAACAGTGATTAAACAAGTGAAAGTTGTTAAG 183
 Db 38 AATTAACTGTGATAAACTAGTTATCGATAAAG 3

RESULT 9
 AAT45713/C
 ID AAT45713 standard; DNA; 38 BP.
 XX AC
 XX DT 25-MAR-2003 (revised)
 AC 04-DEC-1998 (First entry)
 XX DB Class C tet operator sequence.
 DT 18-MAR-1997 (first entry)
 XX KW Tet repressor; tetracycline; regulation; expression;
 DE tet operator-linked gene; tet operator; ds.
 XX OS Synthetic.
 KW PN USS814618-A.
 KW XX PD 29-SEP-1998.
 KW XX PF 07-JUN-1995; 95US-00485978.
 KW XX PR 14-JUN-1993; 93US-00076127.
 XX PR 14-JUN-1993; 93US-00076126.
 XX PR 14-JUN-1994; 94US-0026052.
 XX PR 01-JUL-1994; 94US-00270537.
 XX PR 15-JUL-1994; 94US-0027576.
 XX PR 03-FEB-1995; 95US-00383754.
 XX PA (KNOL) KNOLL AG.
 PA (BADI) BASF AG.
 XX PI Gossen M, Bujard H;
 DR PI
 XX WPI; 1998-541795/46.

Nucleic acid encoding tetracycline-inducible transcription regulatory fusion protein - comprising modified tetracycline repressor able to bind mutant tet operator, fused to transcription regulator, useful for modulating eukaryotic gene expression.

PS Disclosure; Page 82; 117pp; English.

ANT45712-T45715 are class A, C, D and E tet operator sequences, respectively. The main invention of the specification concerns modified Tet repressor (TetR) proteins that bind to modified class B tet operator, CC are used in the course of the invention. The specification describes a CC

CC but also any other class of tet operator may be used. Modified class B CC tet operators were modified at either posn. +4 or +6 by cytosine CC substitutions to give tetO-4C and tetO-6-C (see AAT15711 and AAT48478).
 CC The tet operator sequences were used as targets for modified versions of CC the Tet repressor (TetR). Modified TetR proteins can be fused to a CC transcription regulatory polypeptide and used to control transcription of CC a tetO-4C or tetO-6C linked gene. Nucleic acid encoding a fusion protein, CC as above, may be introduced into a cell and transcription of the protein CC can be controlled by altering the concn. of tetracycline (or an analogue) CC in the cell. This ability to modulate gene expression in a predictable CC way is very useful in gene therapy and for recombinant protein prodn. in CC cultured cells or transgenic animals. The tetracycline (Tc)-inducible CC system is also useful for the prodn. of transgenic animal models for the CC study of disease and also for the study of gene function e.g. during CC differentiation. The Tc-inducible system allows rapid activation of gene CC transcription without cellular toxicity, high concns. of inducer are not CC required.

XX Sequence 38 BP; 13 A; 6 C; 5 G; 14 T; 0 U; 0 Other;

SQ Query Match 8.4%; Score 18.4%; DB 2; Length 38;
 Best Local Similarity 69.4%; Pred. No. 2.6e+04;
 Matches 25; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy 148 AGTGGAAACAGTGATTAAACAAGTGAAAGTTGTTAAG 183
 Db 38 AATTAACTGTGATAAACTAGTTATCGATAAAG 3

RESULT 10
 AAV60085/C
 ID AAV60085 standard; DNA; 38 BP.
 XX AC AAV60085;
 XX AC
 XX DT 25-MAR-2003 (revised)
 DT 04-DEC-1998 (First entry)
 XX DB Class C tet operator sequence.
 XX KW Tet repressor; tetracycline; regulation; expression;
 KW tet operator-linked gene; tet operator; ds.
 XX OS Synthetic.
 KW PN USS814618-A.
 KW XX PD 29-SEP-1998.
 KW XX PF 07-JUN-1995; 95US-00485978.
 KW XX PR 14-JUN-1993; 93US-00076127.
 XX PR 14-JUN-1993; 93US-00076126.
 XX PR 14-JUN-1994; 94US-0026052.
 XX PR 01-JUL-1994; 94US-00270537.
 XX PR 15-JUL-1994; 94US-0027576.
 XX PR 03-FEB-1995; 95US-00383754.
 XX PA (KNOL) KNOLL AG.
 PA (BADI) BASF AG.
 XX PI Gossen M, Bujard H;
 DR PI
 XX WPI; 1998-541795/46.

Tetracycline based regulation of gene expression - uses a tetracycline PT operator sequence joined to a gene of interest, the gene of interest PT being induced in the presence, but not absence, of the antibiotic.

XX Disclosure; Fig 5; 63pp; English.

AAV60083-87 represent tet operator sequences of different classes. They CC are used in the course of the invention.

CC method for regulating expression of a Tet (tetracycline) operator-linked gene in a cell of a subject. The method comprises introducing into the CC cell a nucleic acid encoding a fusion protein which inhibits transcription in eukaryotic cells, the fusion protein comprising a polypeptide which binds to a Tet operator sequence, operatively linked to a heterologous second polypeptide which inhibits transcription in eukaryotic cells and modulating the concentration of a tetracycline analogue in the subject. The method is used for the regulation of gene expression system, using tetracycline (analogues). The system enables a gene coupled to the system to be induced in the presence of Tet and then stopped when Tet is removed. (Updated on 25-MAR-2003 to correct PR field.)

XX Sequence 38 BP; 13 A; 6 C; 5 G; 14 T; 0 U; 0 Other;

SQ Query Match 8.4%; Score 18.4%; DB 2; Length 38;
Best Local Similarity 69.4%; Prd. No. 2.6e+04;

Matches 25; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Db 148 AGTGAAACAGTGTGATTAXAAGCTGAAGGTGGTTAAG 183
38 AATTTAACCTGTGATAAAACTAGCTTATGGATGTAAG 3

Qy AAX60051/C

ID AAX60051 standard; DNA; 38 BP.

XX

AC AAX60051;

XX DT 20-MAR-2003 (revised)

XX DT 04-AUG-1999 (First entry)

DE Class C tet operator sequence.

XX Transgenic mice; transgene; tet operator-linked gene; tetracycline;

XX mouse-active transcriptional regulatory element; mutant Tet repressor;

XX gene therapy; genetic disease; cancer; viral disease;

XX vaccination; rheumatoid arthritis; hypopituitarism; wound healing;

XX tissue regeneration; cancer; benign prostatic hypertrophy; hemophilia;

XX erythrocytopenia; arteriosclerosis; liver disease; Alzheimer's disease;

XX Parkinson's disease; human disease model; ds.

OS Unidentified.

XX PN US5912411-A.

XX PD 15-JUN-1999.

XX PF 07-JUN-1995; 95US-00487472.

XX PR 14-JUN-1993; 93US-00076327.

PR 14-JUN-1993; 93US-00076326.

PR 01-JUL-1994; 94US-00260452.

PR 15-JUL-1994; 94US-002275837.

PR 03-FEB-1995; 95US-00383754.

XX (UYHE-) UNIV HEIDELBERG.

XX PI Bujard H; Gossen M;

XX DR WPI; 1999-357232/30.

XX Transgenic mice with inducible transgene activity useful for in vitro and

in vivo protein production.

XX Disclosure; Fig 5; 63PP; English.

CC The specification describes transgenic mice which have a transgene and a CC tet operator-linked gene integrated in the genome. The transgene CC comprises a mouse-active transcriptional regulatory element linked to a CC polynucleotide sequence that encodes a fusion protein which activates

CC transcription of the tet operator-linked gene. The fusion protein CC comprises a mutated Tet repressor that binds a tet operator sequence in CC the presence of tetracycline (TC) or a TC analogue, linked to a CC polypeptide that activates transcription in eukaryotic cells. The CC transgenic system may be used for gene therapy to treat genes involved in CC genetic or acquired diseases. Gene therapy may be used to treat cancer, CC viral diseases, for vaccination, and to provide (TC induced) regulated CC doses of a product (e.g. for the treatment or regulation of rheumatoid CC arthritis, hypopituitarism, wound healing and tissue regeneration, CC cancer, benign prostatic hypertrophy, hemophilia, erythrocytopenia, CC arteriosclerosis and liver disease, Alzheimer's disease, and Parkinson's CC disease). The system may also be used to produce proteins in vivo (e.g. CC using mammalian, yeast or fungal cells) or in vitro (e.g. transgenic farm CC animals), to produce animal models of human disease, or to produce a CC stable cell line for gene cloning. The present sequence is used to CC construct the transgenes of the invention. (Updated on 20-MAR-2003 to CC correct PF field.)

XX SQ Sequence 38 BP; 13 A; 6 C; 5 G; 14 T; 0 U; 0 Other;

XX Query Match 8.4%; Score 18.4%; DB 2; Length 38;

XX Best Local Similarity 69.4%; Prd. No. 2.6e+04;

XX Matches 25; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

XX SQ Sequence 38 BP; 13 A; 6 C; 5 G; 14 T; 0 U; 0 Other;

XX Query Match 8.4%; Score 18.4%; DB 2; Length 38;

XX Best Local Similarity 69.4%; Prd. No. 2.6e+04;

XX Matches 25; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

XX SQ Sequence 38 BP; 13 A; 6 C; 5 G; 14 T; 0 U; 0 Other;

XX Query Match 8.4%; Score 18.4%; DB 2; Length 38;

XX Best Local Similarity 69.4%; Prd. No. 2.6e+04;

XX Matches 25; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

XX Qy 148 AGTGGAAACAGTGTGATTAXAAGCTGAAGGTGGTTAAG 183
Db 38 AATTTAACCTGTGATAAAACTAGCTTATGGATGTAAG 3

XX RESULT: 12
XX AA256132/C
XX ID AA256132 standard; DNA; 38 BP.
XX AC AA256132;

XX DT 27-MAR-2000 (first entry)

XX DT 27-MAR-2000 (first entry)

XX XX Class C tetracycline operator sequence.

XX DB

XX XX Class C tetracycline operator; gene expression regulation; cancer;

XX KW

XX KW gene therapy; arthritis; wound healing; tissue regeneration; ds.

XX KW

XX OS Escerichia coli.

XX PN US6004911-A.

XX PD 21-DEC-1999.

XX PD 21-DEC-1999.

XX PF 07-JUN-1995; 95US-00485740.

XX PF 07-JUN-1995; 95US-00076327.

XX PR 14-JUN-1993; 93US-00076726.

XX PR 14-JUN-1993; 93US-00076727.

XX PR 14-JUN-1994; 94US-00260452.

XX PR 01-JUL-1994; 94US-00270637.

XX PR 15-JUL-1994; 94US-00275876.

XX PR 03-FEB-1995; 95US-00383754.

XX XX (BADI) BASF AG.

XX PA (BADI) BASE BIORESEARCH CORP.

XX PA (KNCI) KNOLL AG.

XX XX PI Gossen M; Bujard H;

XX DR WPI; 2000-085798/07.

XX XX PT Regulation of gene expression in cells, useful for gene therapy of

PT diseases; production of proteins in vitro and in vivo and production of

PT stable cell lines for cloning.

XX PS Disclosure; Fig 5; 64PP; English.

XX CC This is a class C tetracycline operator sequence. The operator sequence

CC can be used in a method for the regulation of gene expression in a cell.

CC using tetracycline-regulated fusion proteins. The method involves
 CC obtaining a cell from a subject, and introducing a nucleic acid molecule
 CC into the cell, which operatively links a gene to at least one
 CC tetracycline (tet) operator sequence. A second nucleic acid molecule is
 CC then introduced which encodes a fusion protein, where the fusion protein
 CC comprises a first polypeptide which binds to a tet operator sequence in
 CC the presence of tetracycline, or its analogue, operatively linked to a
 CC second polypeptide which activates transcription in eukaryotic cells to
 CC form a modified cell. The modified cell can then be administered to the
 CC subject, and the concentration of tetracycline (or and analogue) can be
 CC regulated so that the expression of the gene is regulated. The method is
 CC useful for gene therapy of diseases such as cancer and arthritis or for
 CC tissue regeneration and wound healing. The method may also be useful for
 CC the production of proteins in vitro and in vivo and for the production of
 CC stable cell lines for cloning
 XX Sequence 38 BP; 13 A; 6 C; 5 G; 14 T; 0 U; 0 Other;

Query Match 8.4%; Score 18.4; DB 3; Length 38;
 Best Local Similarity 69.4%; Pred. No. 2.6e+04;
 Matches 25; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy 148 AGTGGACAGTGATTAACAGTGAAAGTTGTTAAG 183
 Db 38 AATTAACTGTAACTAACTATCGCATAG 3

RESULT 13
 AAC61972/C
 ID AAC61972 standard; DNA; 38 BP.

XX
 AC AAC61972;

XX DT 06-MAR-2001 (first entry)

DE Nucleotide sequence of a class C tet operator.

XX Tetracycline; gene therapy; cancer; viral disease; rheumatoid arthritis;
 KW hypopituitarism; wound healing; angiogenesis inhibitor; transgene;
 KW immune response; tet operator; ds.
 XX Unidentified.

OS
 XX US6136954-A.

XX 24-OCT-2000.

XX 28-SEP-1998; 98US-00162184.

XX PR 14-JUN-1993; 93US-00076327.
 PR 14-JUN-1993; 93US-00076726.
 PR 94US-00260452.
 PR 01-JUL-1994; 94US-00270537.
 PR 15-JUL-1994; 94US-00275876.
 PR 03-FEB-1995; 95US-00383754.
 PR 07-JUN-1995; 95US-00485378.

XX PA (KNOL) KNOLL AG.
 PA (BADI) BASF AG.

XX PI Gossen M., Bujard H;

XX DR WPI; 2001-040240/05.

XX PT New tetracycline-inducible transcriptional activator fusion proteins
 PT useful for regulating the level of gene expression or in gene therapy for
 PT treating genetic or acquired diseases, e.g. as cancer, viral diseases, or
 PT wound healing.
 XX Disclosure; Fig 5; 68pp; English.

CC The specification describes methods for regulating gene expression in
 CC subjects using tetracycline-responsive fusion protein. The fusion protein

comprises a polypeptide that binds to a test operator sequence in the
 CC presence of tetracycline or tetracycline analogues, operatively linked to
 CC a second polypeptide which activates transcription in eukaryotic cells.
 CC The methods are used to turn gene expression on and off, or regulate the
 CC level of gene expression. The system may be used in the study of cellular
 CC development and differentiation in eukaryotic cells, plants and animals,
 CC to regulate expression of site-specific recombinases (e.g. CRE or FLP) to
 CC allow for irreversible modification of the genotype of a transgenic
 CC organism under controlled conditions at a particular stage of
 CC development. The system may further be used in gene therapy, in treating
 CC either genetic or acquired diseases, such as cancer, viral diseases,
 CC rheumatoid arthritis, hypopituitarism, or wound healing, and to
 CC conditionally express suicide gene in cells. The regulatory system is
 CC also used to express angiogenesis inhibitors from within a tumour via a
 CC transgene regulated by this system, and avoid or inhibit an immune
 CC response in subjects receiving treatments. The present sequence
 CC represents a tet operator. It is used in the course of the invention
 XX Sequence 38 BP; 13 A; 6 C; 5 G; 14 T; 0 U; 0 Other;

Query Match 8.4%; Score 18.4; DB 4; Length 38;
 Best Local Similarity 69.4%; Pred. No. 2.6e+04;
 Matches 25; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy 148 AGTGGAACTGATTAAACAGTGAAAGTTGTTAAG 183
 Db 38 AATTAACTGTATAAACTAGTTATGATGATAAG 3

RESULT 14
 AAC47637/C
 ID AAC47637 standard; DNA; 38 BP.

XX AC AAC47637;

XX DT 30-NOV-2001 (first entry)

XX Nucleotide sequence of a class C tet operator.
 XX DB Fusion protein; tet operator; tetracycline; gene therapy; anti-cancer;
 KW rheumatoid arthritis; hypopituitarism; wound healing; hemophilia;
 KW diabetes; Alzheimer's disease; tet repressor; ds.
 KW Unidentified.

XX OS

XX PN US5271348-B1.

XX PD 07-AUG-2001.

XX PF 24-JAN-2000; 2000US-00489777.
 XX PR 14-JUN-1993; 93US-00076726.
 PR 19-JUN-1993; 93US-00076327.
 PR 14-JUN-1994; 94US-00260452.
 PR 01-JUL-1994; 94US-00270537.
 PR 15-JUL-1994; 94US-00275876.
 PR 03-FEB-1995; 95US-00383754.
 PR 07-JUN-1995; 95US-00485378.
 PR 28-SEP-1998; 98US-00162184.
 XX PA (BADI) BASF AG.
 PA (KNOL) KNOLL AG.

XX PI Bujard H., Gossen M.,

XX DR WPI; 2001-556625/62.

XX PT Fusion protein for inhibiting transcription in eukaryotic cells useful in
 PT gene therapy applications comprises a first polypeptide, which binds to
 PT tet operator sequences, operatively linked to a heterologous second
 PT polypeptide.
 XX Disclosure; Fig 5; 69pp; English.

PS

The invention relates to a fusion protein that comprises a first polypeptide which binds to tet operator sequences, operatively linked to a heterologous second polypeptide, which inhibits transcription in eukaryotic cells. The fusion proteins are tetracycline-responsive and are useful for regulation of transcription in eukaryotic cells and animals.

The tetracycline (Tc)-controlled regulatory system is useful in various applications in gene therapy, such as in the treatment of various disease conditions e.g. rheumatoid arthritis, hypopituitarism, wound healing and tissue regeneration, anticancer treatments, benign prostatic hypertrophy, hemophilia, diabetes and arteriosclerosis. They are also useful for bone marrow support therapy, and treatment of central nervous system disorders e.g. Alzheimer's disease, Parkinson's disease (see AAH47628 for a detailed description of the uses). The present sequence represents the nucleotide sequence of a class C tet operator

Sequence 38 BP; 13 A; 6 C; 5 G; 14 T; 0 U; 0 Other;

Query Match 8.4%; Score 18.4; DB 4; Length 38;
 Best Local Similarity 69.4%; Pred. No. 2.6e+04;
 Matches 25; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
 Qy 148 AGTGGAACTGATTAAACAGGTGAGGTGTTAAG 183
 Db 38 AATTACTGTGATAAACTAGTTATGGATATAAG 3

RESULT 15

AAH25578/C
 ID AAH25578 standard; DNA; 38 BP.
 XX
 AC AAH25578;
 XX
 DT 05-SEP-2001 (first entry)

Nucleotide sequence of a tet operator, class A.
 XX
 Transgenic plant; transgene: tet operator-linked gene; Tet repressor; tetracycline-regulated transcriptional regulatory system; tet operator; XX
 Unidentified.

OS
 PN US6242667-B1.
 XX
 PD 05-JUN-2001.
 XX
 PF 28-SEP-1998; 98US-00161902.
 PR 14-JUN-1993; 93US-00076327.
 PR 14-JUN-1993; 93US-00076726.
 PR 14-JUN-1994; 94US-00226052.
 PR 01-JUL-1994; 94US-00270537.
 PR 15-JUL-1994; 94US-00275816.
 PR 03-FEB-1995; 95US-00383754.
 PR 07-JUN-1995; 95US-00487472.
 PA (BADI) BASF AG.
 PA (KNOL) KNOLL AG.
 XX
 Bujard H, Gossen M;
 XX
 WPI; 2001-396837/42.

Transgenic plant for regulating the expression of genes, comprises a transgene integrated into the genome and a tet operator-linked gene in the genome.
 PR
 Disclosure; Fig 5; 65pp; English.
 XX
 The specification describes a transgenic plant with a tetracycline-regulated transcriptional regulatory system. The transgenic plants have a CC transgene and a tet operator-linked gene integrated in the genome, which CC

confers a detectable and functional phenotype on the plant when expressed. The transgene comprises a transcriptional regulatory element functional in cells of the plant operatively linked to a polymucleotide sequence encoding a fusion protein that activates transcription of the tet operator linked gene. The fusion protein comprises a first polypeptide that is a mutated tet repressor that binds to a tet operator sequence in the presence of tetracycline or its analogue, operatively linked to a second polypeptide that activates transcription in eukaryotic cells. In the presence of tetracycline, the fusion protein binds to the tet operator-linked gene and activates transcription of the tet operator-linked gene such that it is expressed at a level sufficient to confer the detectable and functional phenotype on the plant. The level of expression of the tet-operator gene can be downmodulated by depleting tetracycline from the plant. The transgene can be used to regulate the expression of genes in the plant. The transgenic plant can be used to analyse the functions of cellular proteins. The present sequence represents a tet operator, which can be used to produce transgenic plants of the invention

CC Sequence 38 BP; 13 A; 6 C; 5 G; 14 T; 0 U; 0 Other;
 SQ Query Match 8.4%; Score 18.4; DB 5; Length 38;
 Best Local Similarity 69.4%; Pred. No. 2.6e+04;
 Matches 25; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
 Qy 148 AGTGGAACTGATTAAACAGGTGAGGTGTTAAG 183
 Db 38 AATTACTGTGATAAACTAGTTATGGATATAAG 3

Search completed: May 26, 2004, 05:53:43
 Job time : 188.951 secs

Gencore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.
M nucleic - nucleic search, using SW model
run on: May 26, 2004, 05:16:49 ; Search time 42:30:99 Seconds
(without alignments)
2872.886 Million cell updates/sec
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perfect score: 219
sequence: 1 gtctccgtggaaacgggatgtcatc 219
scoring table: IDENTITY_NUC
GAP_P 10_0 , Gapext 1.0

ALIGNMENTS

Maximum DB seq length: 5									
Post-processing: Minimum Match 0%									
Maximum Match 100%									
Listing first 45 summaries									
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4: /cgtn2_6/ptodata/2/ina/6B_COMB.seq;*									
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6: /cgtn2_6/ptodata/2/ina/backfiles1.seq;*									
Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the total score distribution, and is derived by analysis of the total score distribution.									
SUMMARIES									
result No.	Score	Query	Match	Length	DB ID	Description			
1	20	9.1	47	4	US-09-641-638-687	Sequence 687, App			
c	2	18.8	8.6	38	1	US-09-641-638-687	Sequence 23, App1		
c	3	18.4	8.4	38	1	US-08-117-961C-23	Sequence 13, App1		
c	4	18.4	8.4	38	1	US-08-485-911-13	Sequence 13, App1		
c	5	18.4	8.4	38	1	US-08-225-876-13	Sequence 13, App1		
c	6	18.4	8.4	38	1	US-08-383-54-13	Sequence 13, App1		
c	7	18.4	8.4	38	1	US-08-485-978-13	Sequence 13, App1		
c	8	18.4	8.4	38	2	US-08-486-814-13	Sequence 13, App1		
c	9	18.4	8.4	38	2	US-08-487-412-13	Sequence 13, App1		
c	10	18.4	8.4	38	3	US-08-485-740-13	Sequence 13, App1		
c	11	18.4	8.4	38	3	US-09-162-184-13	Sequence 13, App1		
c	12	18.4	8.4	38	3	US-09-161-002-13	Sequence 13, App1		
c	13	18.4	8.4	38	3	US-09-499-777A-13	Sequence 13, App1		
c	14	18.4	8.4	46	5	PCT-US55-08109-12	Sequence 12, App1		
c	15	18.4	8.4	46	5	PCT-US55-05835-12	Sequence 12, App1		
c	16	18.4	8.4	47	4	US-09-541-638-1120	Sequence 1120, Ap		
c	17	18.4	8.4	47	4	US-09-422-978-1596	Sequence 1696, Ap		
c	18	17.8	8.1	49	1	US-08-171-389-54	Sequence 54, App1		
c	19	17.8	8.1	49	1	US-08-123-336-54	Sequence 54, App1		
c	20	17.8	8.1	49	2	US-08-475-228A-54	Sequence 54, App1		
c	21	17.8	8.1	49	3	US-08-182-050A-54	Sequence 54, App1		
c	22	17.8	8.1	49	4	US-09-354-947-54	Sequence 54, App1		
c	23	17.8	8.1	49	5	PCT-US93-12388-54	Sequence 54, App1		
c	24	17.4	8.1	49	5	PCT-US93-12388-54	Sequence 54, App1		
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c	26	17.4	7.9	50	1	US-08-17361C	Applicant: Venkatakrishna, Shyamala		
c	26	17.4	7.9	50	1	US-08-17361C	Attorney: Venkatakrishna, Shyamala		
c	26	17.4	7.9	50	1	US-08-17361C	Priority Date: 1999-05-12		
c	26	17.4	7.9	50	1	US-08-17361C	Examiner: Venkatakrishna, Shyamala		
c	26	17.4	7.9	50	1	US-08-17361C	Sequence No.: 10-347-271		
c	26	17.4	7.9	50	1	US-08-17361C	Publication Date: 1999-05-12		
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TITLE OF INVENTION: Endothelin B1 (ETB1) Receptor Polypeptide
 TITLE OF SEQUENCES: Compositions, Methods, and Uses Thereof
 NUMBER OF SEQUENCES: 27
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Chiron Corporation
 STREET: 4550 Horton Street
 CITY: Emeryville
 STATE: California
 COUNTRY: USA
 ZIP: 946087
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25 &
 SOFTWARE: Word 5.0
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/117,361C
 FILING DATE:
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: Chung, Liang-Fong
 REGISTRATION NUMBER: 36,482
 REFERENCE/DOCKET NUMBER: 0945.001
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (510) 923-2704
 TELEFAX: (510) 655-3542
 INFORMATION FOR SEQ ID NO: 23:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 38 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: DNA (genomic)
 US-08-117-361C-23

Query Match 6 Score 18 8; DB 1; Length 38;
 Best Local Similarity 68.4%; Pred. No. 1.7e-03;
 Matches 26; Conservative 0; Mismatches 12; Indels 0; Gaps 0;
 Qy 6 GCAATAACCTGGCTCTGGAGATCTCTGAGTAAATGTA 102
 Db 38 GCAACAGCTCGATATCTGAGTAAATAGAATTGTA 1

RESULT 3
 US-08-485-971-13/C
 Sequence 13, Application US/08485-971
 Patent No. 5589362
 GENERAL INFORMATION:
 APPLICANT: Bujard, Hermann
 APPLICANT: Goosen, Manfred
 APPLICANT: Hollen, Wolfgang
 APPLICANT: Heibl, Vera
 APPLICANT: Schmappinger, Dirk
 TITLE OF INVENTION: Tetracycline-Regulated Transcriptional
 NUMBER OF SEQUENCES: 28
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: LAHIVE & COCKFIELD
 STREET: 60 State Street, Suite 510
 CITY: Boston
 STATE: Massachusetts
 COUNTRY: USA
 ZIP: 02109-1875
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: ASCII Text
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/485,971
 FILING DATE: 01-JULY-94
 CLASSIFICATION: 435

RESULT 4
 US-08-275-876-13/C
 Sequence 13, Application US/08275-876
 Patent No. 5654168
 GENERAL INFORMATION:
 APPLICANT: Bujard, Hermann
 APPLICANT: Goosen, Manfred
 TITLE OF INVENTION: Tetraacycline-Inducible Transcriptional
 NUMBER OF SEQUENCES: 15
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: LAHIVE & COCKFIELD
 STREET: 60 State Street, Suite 510
 CITY: Boston
 STATE: Massachusetts
 COUNTRY: USA
 ZIP: 02109-1875
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC Compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: ASCII Text
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/275,876
 FILING DATE:
 CLASSIFICATION: 436
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US
 FILING DATE: 01-JULY-94

CLASSIFICATION: 436
 ATTORNEY/AGENT INFORMATION:
 NAME: DeConti, Giulio A. Jr.
 REGISTRATION NUMBER: 31,503
 REFERENCE/DOCKET NUMBER: BBI-009CP
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (617)227-7400
 TELEFAX: (617)227-5941
 INFORMATION FOR SEQ ID NO: 13:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 38 base pairs
 STRANDEDNESS: double
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: linear
 MOLECULE TYPE: DNA (genomic)
 US-08-275-876-13

Query Match 8.4%; Score 18.4; DB 1; Length 38;
 Best Local Similarity 69.4%; Pred. No. 2.4e+03;
 Matches 25; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy	148 AGTGGACAGTGATTACAAGCTGAAAGGTGTTAAG 183
Db	38 AATTTACTGTGATAAACTAGCTTATCGATGATAAG 3

RESULT 5
 US-08-383-754-13/C
 Sequence 13, Application US/08383754
 Patent No. 5789156

GENERAL INFORMATION:
 APPLICANT: Bujard, Hermann
 ADDRESS: Lahrve & Cockfield
 STREET: 60 State Street, Suite 510
 CITY: Boston
 STATE: Massachusetts
 COUNTRY: USA
 ZIP: 02109-1875

CORRESPONDENCE ADDRESS:
 APPLICANT: Bujard, Hermann
 ADDRESS: Lahrve & COCKFIELD
 STREET: 60 State Street, suite 510
 CITY: Boston
 STATE: Massachusetts
 COUNTRY: USA
 ZIP: 02109-1875

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: ASCII Text

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/383,754
 FILING DATE: 03-FEB-1995
 CLASSIFICATION: 436
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/275,876
 FILING DATE: 15-JULY-94
 CLASSIFICATION: 436
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/270,637
 FILING DATE: 01-JULY-94
 CLASSIFICATION: 436
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/260,452
 FILING DATE: 14-JUNE-94
 CLASSIFICATION: 436
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/076,726
 FILING DATE: 14-JUNE-93
 CLASSIFICATION: 436
 ATTORNEY/AGENT INFORMATION:

NAME: DeConti, Giulio A. Jr.
 REGISTRATION NUMBER: 31,503
 REFERENCE/DOCKET NUMBER: BBI-009CP
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (617)227-7400
 TELEFAX: (617)227-5941
 INFORMATION FOR SEQ ID NO: 13:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 38 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: linear
 MOLECULE TYPE: DNA
 US-08-383-754-13

Query Match 8.4%; Score 18.4; DB 1; Length 38;
 Best Local Similarity 69.4%; Pred. No. 2.4e+03;
 Matches 25; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy	148 AGTGGAAAGCTGATTAAAGCTGAAAGGTGTTAAG 183
Db	38 AATTTACTGTGATAAACTAGCTTATCGATGATAAG 3

RESULT 6
 US-08-485-978-13/C
 Sequence 13, Application US/08485978
 Patent No. 5811618

GENERAL INFORMATION:
 APPLICANT: Bujard, Hermann
 ADDRESS: Lahrve & COCKFIELD
 STREET: 60 State Street, Suite 510
 CITY: Boston
 STATE: Massachusetts
 COUNTRY: USA
 ZIP: 02109-1875

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: ASCII Text

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/485,978
 FILING DATE: 02-OCT-1994
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/383,754
 FILING DATE: 03-FEB-1995
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/275,876
 FILING DATE: 15-JULY-94
 CLASSIFICATION: 436
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/270,637
 FILING DATE: 01-JULY-94
 CLASSIFICATION: 436
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/260,452
 FILING DATE: 14-JUNE-94
 CLASSIFICATION: 436
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/076,726
 FILING DATE: 14-JUNE-93
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/076,726
 FILING DATE: 14-JUNE-1993
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/076,726
 FILING DATE: 14-JUNE-1993
 CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:
 NAME: DeConti, Giulio A. Jr.
 REGISTRATION NUMBER: 31,503
 REFERENCE/DOCKET NUMBER: BBI-009CP6
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (617)227-7400
 TELEFAX: (617)227-5941
 INFORMATION FOR SEQ ID NO: 13:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 38 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: linear
 MOLECULE TYPE: DNA
 US-08-485-978-13

Query Match 8.4%; Score 18.4; DB 1; Length 38;
 Best Local Similarity 69.4%; Pred. No. 2.4e+03;
 Matches 25; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
 Qy 148 AGTGGAACTGATTAAACAGCTGAAGGTGTTAG 183
 Db 3B AAATTAACTGTGATAAACATGCTTATCGATGATAAG 3

RESULT 7
 US-08-486-814-13/C
 Sequence 13, Application US/08486814
 Patent No. 5866755
 GENERAL INFORMATION:
 APPLICANT: Bujard, Hermann
 APPLICANT: Gossen, Manfred
 TITLE OF INVENTION: Animals Transgenic for a tetracycline-
 NUMBER OF SEQUENCES: 28
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: LAHIVE & COCKFIELD
 STREET: 60 State Street, Suite 510
 CITY: Boston
 STATE: Massachusetts
 COUNTRY: USA
 ZIP: 02109-1875

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: ASCII Text
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/486,814
 FILING DATE:
 CLASSIFICATION: 800
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/383,754
 FILING DATE: 03-FEB-1995
 CLASSIFICATION: 800
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/275,876
 FILING DATE: 15-JULY-1994
 CLASSIFICATION: 800
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/260,452
 FILING DATE: 14-JUNE-1994
 CLASSIFICATION: 800
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/270,637
 FILING DATE: 01-JULY-1994
 CLASSIFICATION: 800
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/260,452
 FILING DATE: 14-JUNE-1994
 CLASSIFICATION: 800
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/076,327
 FILING DATE: 14-JUNE-1993
 CLASSIFICATION: 800
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/076,726
 FILING DATE: 14-JUNE-1993

RESULT 8
 US-08-487-472-13/C
 Sequence 13, Application US/08487472
 Patent No. 5912411
 GENERAL INFORMATION:
 APPLICANT: Bujard, Hermann
 APPLICANT: Gossen, Manfred
 TITLE OF INVENTION: Animal Transgenic for a tetracycline- Inducible Transcription
 NUMBER OF SEQUENCES: 28
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: LAHIVE & COCKFIELD
 STREET: 60 State Street, Suite 510
 CITY: Boston
 STATE: Massachusetts
 COUNTRY: USA
 ZIP: 02109-1875
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: ASCII Text
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/487,472
 FILING DATE:
 CLASSIFICATION: 800
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/383,754
 FILING DATE: 03-FEB-1995
 CLASSIFICATION: 800
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/275,876
 FILING DATE: 15-JULY-1994
 CLASSIFICATION: 800
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/260,452
 FILING DATE: 14-JUNE-1994
 CLASSIFICATION: 800
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/270,637
 FILING DATE: 01-JULY-1994
 CLASSIFICATION: 800
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/076,327
 FILING DATE: 14-JUNE-1993
 CLASSIFICATION: 800
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/076,726
 FILING DATE: 14-JUNE-1993

FILING DATE: 14-JUNE-1993
 CLASSIFICATION: 800
 ATTORNEY/AGENT INFORMATION:
 NAME: DeConti, Giulio A. Jr.
 REGISTRATION NUMBER: 31,503
 REFERENCE/DOCKET NUMBER: BBI-009CP5
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (617) 227-7400
 TELEX/FAX: (617) 227-5941
 -INFORMATION FOR SEQ ID NO: 13:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 38 base Pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: linear
 MOLECULE TYPE: DNA
 US-06-485-472-13

Query Match 8 4%; Score 18 4%; DB 2; Length 38;
 Best Local Similarity 69.4%; Pred. No. 2.4e-03;
 Matches 25; Conservative 0; Gaps 0;
 Indels 0; Gaps 0;

Qy 148 AGTGGACAGCTGATTAACAGCTGAAGCTGTAG 183
 Db 38 AATTAACTGTGATAAACACTGCTTATCGATGATAAG 3

RESULT 9
 US-08-485-740-13/C
 Sequence 13, Application US/08485740
 / Patent No. 6004941
 / GENERAL INFORMATION:
 / APPLICANT: Bujard, Hermann
 / APPLICANT: Gossen, Manfred
 / TITLE OF INVENTION: Methods for Regulating Gene Expression
 / NUMBER OF SEQUENCES: 28
 / CORRESPONDENCE ADDRESS:
 / ADDRESSEE: LAHIVE & COCKFIELD
 / STREET: 60 State Street, Suite 510
 / CITY: Boston
 / STATE: Massachusetts
 / COUNTRY: USA
 / ZIP: 02109-1875
 / COMPUTER READABLE FORM:
 / MEDIUM TYPE: Floppy disk
 / COMPUTER: IBM PC compatible
 / OPERATING SYSTEM: PC-DOS/MS-DOS
 / SOFTWARE: ASCII Text
 / CURRENT APPLICATION DATA:
 / APPLICATION NUMBER: US/08/485,740
 / FILING DATE:
 / CLASSIFICATION: 435
 / PRIOR APPLICATION DATA:
 / APPLICATION NUMBER: US 08/383,754
 / FILING DATE: 03-FEB-1995
 / CLASSIFICATION: 435
 / PRIOR APPLICATION DATA:
 / APPLICATION NUMBER: US 08/275,876
 / FILING DATE: 15-JULY-1994
 / CLASSIFICATION: 435
 / PRIOR APPLICATION DATA:
 / APPLICATION NUMBER: US 08/270,637
 / FILING DATE: 01-JULY-1994
 / CLASSIFICATION: 435
 / PRIOR APPLICATION DATA:
 / APPLICATION NUMBER: US 08/260,452
 / FILING DATE: 14-JUNE-1994
 / CLASSIFICATION: 435
 / PRIOR APPLICATION DATA:
 / APPLICATION NUMBER: US 08/076,327
 / FILING DATE: 14-JUNE-1993
 / CLASSIFICATION: 435
 / PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/076,726
 FILING DATE: 14-JUNE-1993
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: DeConti, Giulio A. Jr.
 REGISTRATION NUMBER: 31,503
 REFERENCE/DOCKET NUMBER: BBI-009CP5
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (617) 227-7400
 TELEX/FAX: (617) 227-5941
 INFORMATION FOR SEQ ID NO: 13:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 38 base Pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: linear
 MOLECULE TYPE: DNA
 US-08-485-740-13

Query Match 8 4%; Score 18 4%; DB 3; Length 38;
 Best Local Similarity 69.4%; Pred. No. 2.4e-03;
 Matches 25; Conservative 0; Gaps 0;
 Indels 0; Gaps 0;

Qy 148 ACTGGACAGCTGATTAACAGCTGAAGCTGTAG 183
 Db 38 AATTAACTGTGATAAACACTGCTTATCGATGATAAG 3

RESULT 10
 US-09-162-184-13/C
 / Sequence 13, Application US/09162184A
 / Patent No. 6136954
 / GENERAL INFORMATION:
 / APPLICANT: Bujard, Hermann
 / APPLICANT: Gossen, Manfred
 / TITLE OF INVENTION: Tetracycline-Inducible Transcriptional
 / NUMBER OF SEQUENCES: 37
 / CORRESPONDENCE ADDRESS:
 / ADDRESSEE: LAHIVE & COCKFIELD
 / STREET: 28 State Street
 / CITY: Boston
 / STATE: Massachusetts
 / COUNTRY: USA
 / ZIP: 02109-1875
 / COMPUTER READABLE FORM:
 / MEDIUM TYPE: Floppy disk
 / COMPUTER: IBM PC compatible
 / OPERATING SYSTEM: PC-DOS/MS-DOS
 / SOFTWARE: ASCII Text
 / CURRENT APPLICATION DATA:
 / APPLICATION NUMBER: US/09/162,184A
 / FILING DATE: 28-Sep-1998
 / CLASSIFICATION: <Unknown>
 / PRIOR APPLICATION DATA:
 / APPLICATION NUMBER: US 08/383,754
 / FILING DATE: 03-FEB-1995
 / APPLICATION NUMBER: US 08/275,876
 / FILING DATE: 15-JULY-1994
 / APPLICATION NUMBER: US 08/270,637
 / FILING DATE: 01-JULY-1994
 / APPLICATION NUMBER: US 08/260,452
 / FILING DATE: 14-JUNE-1994
 / APPLICATION NUMBER: US 08/076,327
 / FILING DATE: 14-JUNE-1993
 / APPLICATION NUMBER: US 08/260,452
 / FILING DATE: 14-JUNE-1994
 / CLASSIFICATION: 435
 / PRIOR APPLICATION DATA:
 / APPLICATION NUMBER: US 08/270,637
 / FILING DATE: 01-JULY-1994
 / CLASSIFICATION: 435
 / PRIOR APPLICATION DATA:
 / APPLICATION NUMBER: US 08/076,327
 / FILING DATE: 14-JUNE-1993
 / CLASSIFICATION: 435
 / PRIOR APPLICATION DATA:
 / APPLICATION NUMBER: BBI-0096CN
 / FILING DATE: (617) 227-7400

TELEFAX: (617)742-4214
 INFORMATION FOR SEQ ID NO: 13:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 38 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: linear
 MOLECULE TYPE: DNA
 SEQUENCE DESCRIPTION: SEQ ID NO: 13:
 US-09-162-184 -3

Query Match 8.4%; Score 18 4; DB 3; Length 38;
 Best Local Similarity 69.4%; Pred. No. 2.4e+03;
 Matches 25; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy	148 AGTGGAAACAGTGTAAACAGCTGAGGTGTAG 183
Db	38 AATTAAACTGTATAAACATAGCTTATCGTGATAG 3

RESULT 11
 US-09-161-902-13/c
 Sequence 13, Application US/09-61902
 Patent No. 6242667
 GENERAL INFORMATION:
 APPLICANT: Bujard, Hermann
 APPLICANT: Gossen, Manfred
 TITLE OF INVENTION: Animal Transgenic for a Tetracycline-Inducible Transcriptional
 NUMBER OF SEQUENCES: 28
 CORRESPONDENCE ADDRESS:
 ADDRESS: LAHIVE & COCKFIELD
 STREET: 60 State Street, Suite 510
 CITY: Boston
 STATE: Massachusetts
 COUNTRY: USA
 ZIP: 02109-1875
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: ASCII Text
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/161,902
 FILING DATE:
 CLASSIFICATION:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/487,472
 FILING DATE:
 CLASSIFICATION:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/275,876
 FILING DATE: 15-JULY-1994
 CLASSIFICATION:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/270,637
 FILING DATE: 01-JULY-1994
 CLASSIFICATION:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/260,452
 FILING DATE: 14-JUNE-1994
 CLASSIFICATION:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/076,327
 FILING DATE: 14-JUNE-1993
 ATTORNEY/AGENT INFORMATION:
 NAME: DeConti, Giulio A. Jr.
 REGISTRATION NUMBER: 31,503
 REFERENCE/DOCKET NUMBER: BBI-009C6CMDV

RESULT 12
 US-09-489-777A-13/c
 Sequence 13, Application US/09489777A
 Patent No. 6271348
 GENERAL INFORMATION:
 APPLICANT: Bujard, Hermann
 APPLICANT: Gossen, Manfred
 TITLE OF INVENTION: Tetracycline-Inducible Proteins

NUMBER OF SEQUENCES: 37
 CORRESPONDENCE ADDRESS:
 ADDRESS: LAHIVE & COCKFIELD
 STREET: 28 State Street
 CITY: Boston
 STATE: Massachusetts
 COUNTRY: USA
 ZIP: 02109-1875
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: ASCII Text
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/489,777A
 FILING DATE: 24-Jan-2000
 CLASSIFICATION: <Unknown>
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 09/162,184
 FILING DATE: 28-SEP-1998
 APPLICATION NUMBER: US 08/485,978
 FILING DATE: 07-JUN-1995
 APPLICATION NUMBER: US 08/383,754
 FILING DATE: 03-FEB-1995
 APPLICATION NUMBER: US 08/275,876
 FILING DATE: 15-JULY-1994
 APPLICATION NUMBER: US 08/270,637
 FILING DATE: 01-JULY-1994
 APPLICATION NUMBER: US 08/260,452
 FILING DATE: 14-JUNE-1994
 APPLICATION NUMBER: US 08/076,327
 FILING DATE: 14-JUNE-1993
 APPLICATION NUMBER: US 08/076,726
 FILING DATE: 14-JUNE-1993
 ATTORNEY/AGENT INFORMATION:
 NAME: DeConti, Giulio A. Jr.
 REGISTRATION NUMBER: 31,503
 REFERENCE/DOCKET NUMBER: BBI-009C6CMDV

TELECOMMUNICATION INFORMATION:
 TELEPHONE: (617)227-7400
 TELEFAX: (617)742-4214
 INFORMATION FOR SEQ ID NO: 13:
 SEQUENCE CHARACTERISTICS:

LENGTH: 38 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: linear
 MOLECULE TYPE: DNA
 SEQUENCE DESCRIPTION: SEQ ID NO: 13:
 US-09-489-777A-13

Query Match 8.4%; Score 18.4; DB 3; Length 38;
 Best Local Similarity 69.4%; Pred. No. 2.4e+03;
 Matches 25; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy 148 AGTGGACATGTGATTACAAGCTGAGGTGTTAG 183
 Db 38 AATTAACTGTGATAAACTAGCTTATCGATGATAG 3

RESULT 14
 US-08-242-409-12
 Sequence 12, Application US/08242409
 Patent No. 5496831
 GENERAL INFORMATION:
 APPLICANT: Alexander-Bridges, Maria C.
 ATTORNEY/AGENT: Zhao, Hui-Fen
 TITLE OF INVENTION: INHIBITION OF INSULIN-INDUCED
 TITLE OF INVENTION: ADIPOSIS
 NUMBER OF SEQUENCES: 12
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Fish & Richardson
 STREET: 225 Franklin Street
 CITY: Boston
 STATE: Massachusetts
 COUNTRY: U.S.A.
 ZIP: 02110-2804
 COMPUTER READABLE FORM:
 MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
 COMPUTER: IBM PS/2 Model 50Z or 55SX
 OPERATING SYSTEM: MS-DOS (Version 5.0)
 SOFTWARE: Wordperfect (Version 5.1)
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/242,409
 FILING DATE:
 CLASSIFICATION: 514
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER:
 FILING DATE:
 ATTORNEY/AGENT INFORMATION:
 NAME: Clark, Paul T.
 REGISTRATION NUMBER: 30,162
 REFERENCE/DOCKET NUMBER: 00786/2388001
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (617) 542-5070
 TELEFAX: (617) 542-8906
 TELEX: 200154
 INFORMATION FOR SEQ ID NO: 12:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 46
 CLASSIFICATION:
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 US-08-242-409-12

RESULT 15
 PCT-US95-05835-12
 Sequence 12, Application PC/TUS9505835
 GENERAL INFORMATION:
 APPLICANT: Alexander-Bridges, Maria C.
 ATTORNEY/AGENT: Zhao, Hui-Fen
 TITLE OF INVENTION: INHIBITION OF INSULIN-
 TITLE OF INVENTION: INDUCED ADIPOSIS
 NUMBER OF SEQUENCES: 12
 CORRESPONDENCE ADDRESS:

ADDRESSEE: Fish & Richardson
STREET: 225 Franklin Street
CITY: Boston
STATE: Massachusetts
COUNTRY: U.S.A.
ZIP: 02110-2804

COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb

COMPUTER: IBM PS/2 Model 50Z or 55SX
OPERATING SYSTEM: MS-DOS (Version 5.0)

SOFTWARE: WordPerfect (Version 5.1)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: PCT/US95/05835

FLYING DATE:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/242,409

FILING DATE: 13 May 1994

ATTORNEY/AGENT INFORMATION:

NAME: Clark, Paul T.

REGISTRATION NUMBER: 30,162

REFERENCE/DOCKET NUMBER: 00786/2388001

TELECOMMUNICATION INFORMATION:

TELEPHONE: (617) 542-5070

TELEFAX: (617) 542-8906

TELEX: 200154

INFORMATION FOR SEQ ID NO: 12:

SEQUENCE CHARACTERISTICS:

LENGTH: 46

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

PCT-US95-05835-12

Query Match 8.4%; Score 18.4; DB 5; Length 46;
Best Local Similarity 63.6%; Pred. No. 2.78+03;
Matches 28; Conservative 0; Mismatches 16; Indels 0; Gaps 0;
Qy 20 AGTGGACCATGGCGGAGAGAGGTGCCACCTTCCTTCCTCC 63
Db 2 AGGGGTGAAGGGCGAGACTCGAAACTTTCTTCTTCCCC 45

Search completed: May 26, 2004, 09:20:40
Job time : 43.3039 secs

ATTACHMENTS

RESULT 1

US-10-170-097-687
; Sequence 687, Application US/10170097
; Publication No. US2003022882A1
; GENERAL INFORMATION:
; APPLICANT: Blumenthal, Marta
; APPLICANT: Bougueret, Lydie
; APPLICANT: Chumakov, Ilya
; APPLICANT: Cohen, Annick
; TITLE OF INVENTION: BIALLELIC MARKERS DERIVED FROM GENOMIC REGIONS CARRYING
; GENES INVOLVED IN ARACHIDONIC ACID METABOLISM
; FILE REFERENCE: GEN-T114X2D1
; CURRENT APPLICATION NUMBER: US/10/170,097
; CURRENT FILING DATE: 2005-06-10
; PRIOR APPLICATION NUMBER: US 09/641,638
; PRIOR FILING DATE: 2000-08-16
; PRIOR APPLICATION NUMBER: US 09/502,330
; PRIOR FILING DATE: 2000-02-11
; PRIOR APPLICATION NUMBER: US 60/133,200
; PRIOR FILING DATE: 1999-05-07
; PRIOR APPLICATION NUMBER: US 09/275,267
; PRIOR FILING DATE: 1999-03-23
; PRIOR APPLICATION NUMBER: US 60/119,917
; PRIOR FILING DATE: 1999-02-12
; NUMBER OF SEQ ID NOS: 1304
; SOFTWARE: Patent .pm
; SEQ ID NO: 687
; LENGTH: 47
; TYPE: DNA
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: allele
; LOCATION: 24
; OTHER INFORMATION: 10-347-271 : polymorphic base A or T
US-10-170-097-687

Query Match Score 20; DB 16; Length 4;

SUMMARIES						
Result No.	Score	Query Match	Length	DB ID	%	Description
1	20	9.1	47	US-10-170-097-687		Sequence 687, 7
2	18.6	8.5	40	US-10-035-033A-3666		Sequence 3666,
c	3	18.4	8.4	38	9	Sequence 13, Ap
c	4	18.4	8.4	38	10	Sequence 13, Ap
c	5	18.4	8.4	38	11	Sequence 13, Ap
c	6	18.4	8.4	38	15	Sequence 66, 13
c	7	18.4	8.4	38	15	Sequence 66, 13
c	8	18.4	8.4	38	15	Sequence 66, 13
c	9	18.4	8.4	47	16	Sequence 1120,
c	10	18.4	8.4	47	16	Sequence 1696,
c	11	18.4	8.4	56	16	Sequence 3703,
c	12	18.4	8.4	50	16	Sequence 4230,
c	13	18.4	8.3	46	13	Sequence 739, 4
c	14	18.2	8.3	46	13	Sequence 740,

Result No.	Score	Query Match	Length	DB	ID
1	20	9.1	47	16	US-10-170-09
2	18.6	8.5	40	12	US-10-035-83
c	3	18.4	8.4	38	9
c	4	18.4	8.4	38	10
c	5	18.4	8.4	38	11
c	6	18.4	8.4	38	15
c	7	18.4	8.4	38	15
c	8	18.4	8.4	38	15
c	9	18.4	8.4	47	16
c	10	18.4	8.4	47	16
c	11	18.4	8.4	50	16
c	12	18.4	8.4	50	16
c	13	18.2	8.3	46	13
c	14	18.2	8.3	46	13

Best Local Similarity 63.0%; Pred. No. 8.5e+03; Matches 29; Conservative 1; Mismatches 16; Indels 0; Gaps 0;

Qy 50 ACCCTTCCTTCCCAAGGATAAACTGGTCTCTGGAGATCACTGTAG 95
Db 2 ACCCTTCCTTCCCACTGGCTCTCTCTAGTGCTGCG 47

RESULT 2

US-10-035-833A-3666

i Sequence 3666, Application US/10035833A
i Publication No. US20040072156A1

i GENERAL INFORMATION:
i APPLICANT: Nakamura, Yaho
i APPLICANT: Sekine, Akhiro
i APPLICANT: Iida, Aritoshi
i APPLICANT: Saito, Osamu

i TITLE OF INVENTION: Detection of Genetic Polymorphisms

i FILE REFERENCE: F05S-06304

i CURRENT APPLICATION NUMBER: US/10/0355,833A

i CURRENT FILING DATE: 2001-12-27

i NUMBER OF SEQ ID NOS: 7669

i SOFTWARE: PatentIn version 3.2

i SEQ ID NO 3666

i LENGTH: 40

i TYPE: DNA

i ORGANISM: Homo sapiens

i FEATURE:

i NAME/KEY: misc_feature

i LOCATION: (21)-(21)

i OTHER INFORMATION: 9 is present or absent.

US-10-035-833A-3666

Query Match 8.5%; Score 18.6; DB 12; Length 40;
Matches 24; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

Qy 7 CTGAGGAAGGGGAGTGACCATCGGGCGGAGA 39
Db 7 CAGAGTAAGGGGGGGAGGTGGGAGA 39

RESULT 3

US-09-874-389-13/c

i Sequence 13, Application US/09874389
i Patent No. US2002124894A1

i GENERAL INFORMATION:
i APPLICANT: Bujard, Hermann
i Gossen, Manfred

i TITLE OF INVENTION: Animal Transgenic for a Tetracycline- Inducible Transcription

NUMBER OF SEQUENCES: 28
CORRESPONDENCE ADDRESS:
i ADDRESSEE: LAHIVE & COCKFIELD
i STREET: 60 State Street, Suite 510
i CITY: Boston
i STATE: Massachusetts
i COUNTRY: USA
i ZIP: 02109-1875

COMPUTER READEABLE FORM:
i MEDIUM TYPE: Floppy disk
i COMPUTER: IBM PC compatible
i OPERATING SYSTEM: PC-DOS/MS-DOS
i SOFTWARE: ASCII Text
i CURRENT APPLICATION DATA:
i APPLICATION NUMBER: US/09/874,389
i FILING DATE: 26-Dec-2001
i CLASSIFICATION: <Unknown>
i PRIOR APPLICATION DATA:
i APPLICATION NUMBER: 09/161,902
i FILING DATE: <Unknown>
i APPLICATION NUMBER: US 08/275,876
i FILING DATE: 15-JULY-1994

APPLICATION NUMBER: US 08/270,637
FILING DATE: 01-JULY-94
APPLICATION NUMBER: US 08/260,452
FILING DATE: 14-JUNE-1994
APPLICATION NUMBER: US 08/076,327
FILING DATE: 14-JUNE-1993
ATTORNEY/AGENT INFORMATION:
NAME: DeConti, Giulio A. Jr.
REGISTRATION NUMBER: BBI-009CP3
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)227-7400
TELEFAX: (617)227-5941
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 38 base Pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: Linear
MOLECULE TYPE: DNA
SEQUENCE DESCRIPTION: SEQ ID NO: 13:
US-09-874-389-13

Query Match 8.4%; Score 18.4; DB 9; Length 38;
Best Local Similarity 69.4%; Pred. No. 2.8e+04;
Matches 25; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
Qy 148 AGTGGACATGTTAACAGCTGAAGGTGTTAAG 183
Db 38 AATTAACTGTGATAAACTAGCTTATCGATGATAAG 3

RESULT 4

US-09-921-650-13/c

i Sequence 13, Application US/09921650
i Publication No US2003002215A1

i GENERAL INFORMATION:
i APPLICANT: Bujard, Hermann
i Gossen, Manfred

i TITLE OF INVENTION: Tetracycline-Inducible Transcripti

NUMBER OF SEQUENCES: 37
CORRESPONDENCE ADDRESS:
i ADDRESSEE: LAHIVE & COCKFIELD
i STREET: 28 State Street
i CITY: Boston
i STATE: Massachusetts
i COUNTRY: USA
i ZIP: 02109-1875

COMPUTER READABLE FORM:
i MEDIUM TYPE: Floppy disk
i COMPUTER: IBM PC compatible
i OPERATING SYSTEM: PC-DOS/MS-DOS
i SOFTWARE: ASCII Text
i CURRENT APPLICATION DATA:
i APPLICATION NUMBER: US/09/921,650
i FILING DATE: 03-Aug-2001
i CLASSIFICATION: <Unknown>
i PRIOR APPLICATION DATA:
i APPLICATION NUMBER: US 09/912,650
i FILING DATE: 2001-08-03
i APPLICATION NUMBER: US 08/445,978
i FILING DATE: 07-JUN-1995
i APPLICATION NUMBER: US 08/383,754
i FILING DATE: 03-FEB-1995
i APPLICATION NUMBER: US 08/275,876
i FILING DATE: 15-JULY-1994
i APPLICATION NUMBER: US 08/270,637
i FILING DATE: 01-JULY-1994
i APPLICATION NUMBER: US 08/260,452
i FILING DATE: 14-JUNE-1994

APPLICATION NUMBER: US 08/076,327
 FILING DATE: 14-JUNE-1993
 APPLICATION NUMBER: US 08/076,726
 FILING DATE: 14-JUNE-1993
 ATTORNEY/AGENT INFORMATION:
 NAME: Deconti, Giulio A., Jr.
 REGISTRATION NUMBER: 31,503
 REFERENCE/DOCKET NUMBER: BBI-009C6CNNDV
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (617)227-7400
 TELEFAX: (617)227-7400
 INFORMATION FOR SEQ ID NO: 13:
 MOLECULE TYPE: DNA
 SEQUENCE DESCRIPTION: SEQ ID NO: 13:
 /SEQUENCE CHARACTERISTICS:
 LENGTH: 38 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: linear
 MOLECULE TYPE: DNA
 SEQUENCE DESCRIPTION: SEQ ID NO: 13:
 US-09-921-650-13

Query Match Score 8.4%; Best Local Similarity 69.4%; Matches 25; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

RESULT 5
 US-09-241-341-13/C
 Sequence 13, Application US/09241347
 Publication No. US2004000341A1
 GENERAL INFORMATION:
 APPLICANT: Bujard, Hermann
 Gossen, Manfred
 TITLE OF INVENTION: Animals Transgenic for a Tetracycline-
 NUMBER OF SEQUENCES: 28
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: LAHIVE & COCKFIELD
 STREET: 60 State Street, Suite 510
 CITY: Boston
 STATE: Massachusetts
 COUNTRY: USA
 ZIP: 02109-1875
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: ASCII Text
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/241,347
 FILING DATE: 02-Feb-1999
 CLASSIFICATION: 800
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/08/486,814
 FILING DATE: <Unknown>
 APPLICATION NUMBER: US 08/383,754
 FILING DATE: 03-Feb-1995
 APPLICATION NUMBER: US 08/275,876
 FILING DATE: 15-JULY-1994
 APPLICATION NUMBER: US 08/270,637
 FILING DATE: 01-JULY-1994
 APPLICATION NUMBER: US 08/260,452
 FILING DATE: 14-JUNE-1994
 APPLICATION NUMBER: US 08/275,876
 FILING DATE: 14-JUNE-1993
 APPLICATION NUMBER: US 08/076,726
 FILING DATE: 14-JUNE-1993
 ATTORNEY/AGENT INFORMATION:
 NAME: Deconti, Giulio A., Jr.
 REGISTRATION NUMBER: 31,503

REFERENCE/DOCKET NUMBER: BBI-009CP4
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (617)227-7400
 TELEFAX: (617)227-5941
 INFORMATION FOR SEQ ID NO: 13:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 38 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: linear
 MOLECULE TYPE: DNA
 SEQUENCE DESCRIPTION: SEQ ID NO: 13:
 US-09-241-347-13

Query Match Score 8.4%; Best Local Similarity 69.4%; Matches 25; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

RESULT 6
 US-10-032-193-6/C
 Sequence 64, Application US/10032393
 Publication No. US20030027286A1
 GENERAL INFORMATION:
 APPLICANT: Haselbeck, Robert
 APPLICANT: Wall, Daniel
 APPLICANT: Gross, Molly
 TITLE OF INVENTION: BACTERIAL PROMOTERS AND METHODS OF USE
 FILE REFERENCE: BLITRA.010A
 CURRENT APPLICATION NUMBER: US/10/032,393
 CURRENT FILING DATE: 2000-12-21
 PRIORITY APPLICATION NUMBER: 60/259,434
 PRIORITY FILING DATE: 2000-12-27
 PRIORITY APPLICATION NUMBER: 09/948,993
 PRIORITY FILING DATE: 2001-09-06
 PRIORITY APPLICATION NUMBER: 60/230,335
 PRIORITY FILING DATE: 2000-09-06
 NUMBER OF SEQ ID NOS: 68
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO: 64
 LENGTH: 38
 TYPE: DNA
 ORGANISM: Plasmid pSC101
 US-10-032-193-64

Query Match Score 8.4%; Best Local Similarity 69.4%; Matches 25; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

RESULT 7
 US-10-301-516-10/C
 Sequence 10, Application US/1001516
 Publication No. US20030180756A1
 GENERAL INFORMATION:
 APPLICANT: SHI, YANG
 APPLICANT: SUI, GUANGCHAO
 TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR SUPPRESSING EUKARYOTIC GENE EXPRESSION
 FILE REFERENCE: HMV-084.01
 CURRENT APPLICATION NUMBER: US/10/301,516
 CURRENT FILING DATE: 2002-11-21
 PRIORITY APPLICATION NUMBER: 60/1366,478
 PRIORITY FILING DATE: 2002-03-21
 NUMBER OF SEQ ID NOS: 39

FEATURE:
 OTHER INFORMATION: Description of Artificial Sequence: Synthetic tet
 OTHER INFORMATION: Operator sequence
 US-10-301-516-10

Query Match 8.4%; Score 18.4; DB 15; Length 38;
 Best Local Similarity 69.4%; Pred. No. 2, 8e+04;
 Matches 25; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy 148 AGTGGAACTGTTGATTAACAGCTGAAGGTGTTAAG 183
 Db 38 AATTAACTGTGATAAACTAGCTTATCGATGATAAG 3

RESULT 8
 US-10-326-671-53-C
 ; Sequence 53-C, Application US/10326671
 ; GENERAL INFORMATION: US20030186281A1.
 ; APPLICANT: Hillen, Wolfgang
 ; TITLE OF INVENTION: MODIFIED TETRACYCLINE REPRESSOR PROTEIN COMPOSITIONS AND METHODS
 ; FILE REFERENCE: 10102-022-999
 ; CURRENT APPLICATION NUMBER: US/10/326,671
 ; PRIOR APPLICATION NUMBER: 2002-12-20
 ; PRIOR FILING DATE: 2001-12-21
 ; NUMBER OF SEQ ID NOS: 459
 ; SOFTWARE: PatentIn version 3.1.
 ; SEQ ID NO: 53
 ; LENGTH: 38
 ; TYPE: DNA
 ; ORGANISM: Plasmid pSC101
 ; US-10-326-671-53

Query Match 8.4%; Score 18.4; DB 15; Length 38;
 Best Local Similarity 69.4%; Pred. No. 2, 8e+04;
 Matches 25; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy 148 AGTGGAACTGTTGATTAACAGCTGAAGGTGTTAAG 183
 Db 38 AATTAACTGTGATAAACTAGCTTATCGATGATAAG 3

RESULT 9
 US-10-170-097-1120
 ; Sequence 1120, Application US/10170097
 ; Publication No. US20030228582A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Blumenfeld, Marta
 ; APPLICANT: Bougueret, Lydie
 ; APPLICANT: Cohen, Annick
 ; TITLE OF INVENTION: BIALLELIC MARKERS DERIVED FROM GENOMIC REGIONS CARRYING GENES INVOLVED IN ARACHIDONIC ACID METABOLISM
 ; FILE REFERENCE: GEN-T114XCD1
 ; CURRENT APPLICATION NUMBER: US/10/170,097
 ; PRIOR APPLICATION NUMBER: US 09/641,638
 ; PRIOR FILING DATE: 2000-08-16
 ; PRIOR APPLICATION NUMBER: US 09/502,330
 ; PRIOR FILING DATE: 2000-02-11
 ; PRIOR APPLICATION NUMBER: US 60/133,200
 ; PRIOR FILING DATE: 1999-05-07
 ; PRIOR APPLICATION NUMBER: US 09/275,267
 ; PRIOR FILING DATE: 1999-03-23
 ; PRIOR APPLICATION NUMBER: US 60/119,917
 ; PRIOR FILING DATE: 1999-02-12

Query Match 8.4%; Score 18.4; DB 16; Length 47;
 Best Local Similarity 73.3%; Pred. No. 3e+04;
 Matches 22; Conservative 1; Mismatches 7; Indels 0; Gaps 0;

Qy 63 CAGGATAAACTGGTCTCTGGAGATCACTG 92
 Db 14 CAGCCAGAACTGTTGCTGTTGATGGCTACTG 43

RESULT 10
 US-10-349-143-1696
 ; Sequence 1696, Application US/10349143
 ; Publication No. US20040005584A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Cohen, Daniel
 ; APPLICANT: Blumenfeld, Marta
 ; APPLICANT: Chumakov, Ilya
 ; TITLE OF INVENTION: Biallelic markers for use in constructing a high density...
 ; FILE REFERENCE: GENST-020CP1
 ; CURRENT APPLICATION NUMBER: US/10/349,143
 ; PRIOR APPLICATION NUMBER: US/03-01-21
 ; PRIOR FILING DATE: 2003-01-21
 ; PRIOR APPLICATION NUMBER: US/09/4422,978
 ; PRIOR FILING DATE: 1999-10-20
 ; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 09/298,850
 ; PRIOR FILING DATE: EARLIER FILING DATE: 1999-04-21
 ; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/109,732
 ; PRIOR FILING DATE: EARLIER FILING DATE: 1998-11-23
 ; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/082,614
 ; PRIOR FILING DATE: EARLIER FILING DATE: 1998-04-21
 ; NUMBER OF SEQ ID NOS: 11756
 ; SEQ ID NO: 1696
 ; LENGTH: 47
 ; TYPE: DNA
 ; ORGANISM: Homo Sapiens
 ; FEATURE:
 ; NAME/KEY: allele
 ; LOCATION: 24
 ; OTHER INFORMATION: 99-5709-80 : polymorphic base A or G
 ; US-10-349-143-1696

Query Match 8.4%; Score 18.4; DB 16; Length 47;
 Best Local Similarity 60.9%; Pred. No. 3e+04;
 Matches 28; Conservative 1; Mismatches 17; Indels 0; Gaps 0;

Qy 140 CCAGCACCAGCTGGAACTGATTACAGCTGAAGGTGTTAAGAA 185
 Db 1 CTAGCACAACCTGGATCATGATTCACAAATGAAAGGGCTTGA 46

RESULT 11
 US-10-131-927-3703/C
 ; Sequence 3703, Application US/10131827
 ; Publication No. US0040009479A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Wohlgemuth, Jay
 ; APPLICANT: Fry, Kirk
 ; APPLICANT: Woodward, Robert
 ; APPLICANT: Ly, Ngoc
 ; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR DIAGNOSING AND MONITORING AUTOIMMUNE CHRONIC INFLAMMATORY DISEASES
 ; NUMBER OF INVENTION: 506612000120
 ; FILE REFERENCE: 506612000120

CURRENT APPLICATION NUMBER: US/10/131,827
 / CURRENT FILING DATE: 2002-09-06
 / PRIOR APPLICATION NUMBER: US 10/006,290
 / PRIOR FILING DATE: 2001-10-22
 / PRIOR APPLICATION NUMBER: US 60/296,764
 / PRIOR FILING DATE: 2001-06-08
 / NUMBER OF SEQ ID NOS: 9090
 / SOFTWARE: PatentIn version 3.1
 / SEQ ID NO: 43103
 / LENGTH: 50
 / TYPE: DNA
 / ORGANISM: Homo sapiens
 US-10-131-827-43703

Query Match 8.4%; Score 18.4; DB 16; Length 50;
 Best Local Similarity 69.4%; Pred. No. 3.1e+04;
 Matches 25; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy 37 AGACGAGGTGCGACCTTCTCCAGCAATAAACCTGGTC 80
 Db 47 AGACAACTTGAGAACATTCTCCCTCCTGGACCTCTCCC 4

RESULT 12

US-10-131-827-4230/C
 / Sequence 4210, Application US/10131827
 / GENERAL INFORMATION:
 / APPLICANT: Wohlgemuth, Jay
 / APPLICANT: Fry, Kirk
 / APPLICANT: Woodward, Robert
 / APPLICANT: LY, NGOC
 / TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR DIAGNOSING AND MONITORING AUTOIMMUNE DISEASES
 / FILE REFERENCE: 506612000120
 / CURRENT APPLICATION NUMBER: US/10/131,827
 / CURRENT FILING DATE: 2002-09-06
 / PRIOR APPLICATION NUMBER: US 10/006,290
 / PRIOR FILING DATE: 2001-10-22
 / SEQ ID NO: 4310
 / LENGTH: 50
 / TYPE: DNA
 / ORGANISM: Homo sapiens
 US-10-131-827-4230

Query Match 8.4%; Score 18.4; DB 16; Length 50;
 Best Local Similarity 69.4%; Pred. No. 3.1e+04;
 Matches 25; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy 50 ACCTTCTCCAGCAATAAACCTGGTC 85
 Db 46 ACATTTACATCCAGTAAGAAGACTCAAGAG 11

RESULT 13

US-10-252-155-739
 / Sequence 7319, Application US/10252155
 / Publication No. US20040068096A1
 / GENERAL INFORMATION:
 / APPLICANT: Bristol-Myers Squibb Company
 / TITLE OF INVENTION: HUMAN SINGLE NUCLEOTIDE POLYMORPHISMS IN ORGANIC ANION TRANSPORT PROTEINS
 / FILE REFERENCE: D0152 NP
 / CURRENT APPLICATION NUMBER: US/10/252,155
 / CURRENT FILING DATE: 2002-09-20
 / PRIOR APPLICATION NUMBER: US 60/324,172
 / PRIOR FILING DATE: 2001-09-21
 / PRIOR APPLICATION NUMBER: US 60/333,700
 / PRIOR FILING DATE: 2001-11-27
 / NUMBER OF SEQ ID NOS: 783
 / SOFTWARE: PatentIn version 3.1
 / SEQ ID NO: 740

Query Match 8.3%; Score 18.2; DB 13; Length 46;
 Best Local Similarity 66.7%; Pred. No. 3.5e-04;
 Matches 26; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

Qy 181 AAGAACGAGCATGCCCTAACAGCTGGCATGTCATC 219
 Db 2 AGGAAACAGCTGACCTGACATATGTTGTCATC 40

RESULT 14

US-10-252-155-740
 / Sequence 740, Application US/10252155
 / Publication No. US20040068096A1
 / GENERAL INFORMATION:
 / APPLICANT: Bristol-Myers Squibb Company
 / TITLE OF INVENTION: HUMAN SINGLE NUCLEOTIDE POLYMORPHISMS IN ORGANIC ANION TRANSPORT PROTEINS
 / FILE REFERENCE: D0152 NP
 / CURRENT APPLICATION NUMBER: US/10/252,155
 / CURRENT FILING DATE: 2002-09-20
 / PRIOR APPLICATION NUMBER: US 60/324,172
 / PRIOR FILING DATE: 2001-09-21
 / PRIOR APPLICATION NUMBER: US 60/333,700
 / PRIOR FILING DATE: 2001-11-27
 / NUMBER OF SEQ ID NOS: 783
 / SOFTWARE: PatentIn version 3.1
 / SEQ ID NO: 740

Query Match 8.3%; Score 18.2; DB 13; Length 46;
 Best Local Similarity 66.7%; Pred. No. 3.5e-04;
 Matches 26; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

Qy 181 AAGAACGAGCATGCCCTAACAGCTGGCATGTCATC 219
 Db 2 AGGAAACAGCTGACCTGACATATGTTGTCATC 40

RESULT 15

US-10-131-827-4910
 / Sequence 4910, Application US/10131827
 / Publication No. US2004009479A1
 / GENERAL INFORMATION:
 / APPLICANT: Wohlgemuth, Jay
 / APPLICANT: Fry, Kirk
 / APPLICANT: Woodward, Robert
 / APPLICANT: LY, NGOC
 / TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR DIAGNOSING AND MONITORING AUTOIMMUNE DISEASES
 / FILE REFERENCE: 50661000120
 / CURRENT APPLICATION NUMBER: US/10/131,827
 / CURRENT FILING DATE: 2002-09-06
 / PRIOR APPLICATION NUMBER: US 10/006,290
 / PRIOR FILING DATE: 2001-10-22
 / PRIOR APPLICATION NUMBER: US 60/296,764
 / PRIOR FILING DATE: 2001-06-08
 / NUMBER OF SEQ ID NOS: 9090
 / SOFTWARE: PatentIn version 3.1
 / SEQ ID NO: 4910

Query Match 8.3%; Score 18.2; DB 13; Length 46;
 Best Local Similarity 66.7%; Pred. No. 3.5e-04;
 Matches 26; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

Qy 181 AAGAACGAGCATGCCCTAACAGCTGGCATGTCATC 219
 Db 2 AGGAAACAGCTGACCTGACATATGTTGTCATC 40

US-10-131-827-4910

	Query Match	Best Local Similarity	Score	DB 16;	Length	50;
Matches	29;	Conservative	61.7%;	Pred. No.	3.6e+04;	
Qy	91	TGTTAGAAATTGTGACTGGATGAAAAATCAGTCAAGTGACGTGAAAGA				137
Db	2	TGGAGCGTTTTGTTGTTGAGATAATTAGTCAGTCCATTCCAAAAGA				48

Search completed: May 26, 2004, 10:22:39
Job time : 955.965 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: May 26, 2004, 05:12:53 ; Search time 1520.36 Seconds
(without alignments)

Sequence: 43001.492 Million cell updates/sec
Title: US-10-048-046-1_COPY_181_399

Perfect score: 219
Sequence: 1 gtcctctggaaaggccgaa.....tacaggactggggatgttcata 219

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 27513289 seqs, 14931090276 residues

Total number of hits satisfying chosen parameters:

138346

Minimum DB seq length: 0
Maximum DB seq length: 50

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing First 45 summaries

Database :

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1: em_estba:*
2: em_estchum:*
3: em_esttin:*
4: em_estmu:*
5: em_estrov:*
6: em_estpli:*
7: em_estro:*
8: em_linc:*
9: gb_est1:*
10: gb_est2:*
11: gb_htc:*
12: gb_est3:*
13: gb_est4:*
14: gb_est5:*
15: em_estom:*
16: em_estfun:*
17: em_gss_hum:*
18: em_gss_inv:*
19: em_gss_pln:*
20: em_gss_vrc:*
21: em_gss_fun:*
22: em_gss_nam:*
23: em_gss_mus:*
24: em_gss_pro:*
25: em_gss_rnd:*
26: em_gss_phg:*
27: em_gss_vrl:*
28: gb_gss1:*
29: gb_gss2:*
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ALIGNMENTS

RESULT	LOCUS	DEFINITION	ACCESSION	VERSION	AUTHORS	KEYWORDS	ORGANISM	GSS	COMMENT
1	AZ481318	AZ0303B05R Mouse 10kb plasmid UGGC1M library Mus musculus genomic clone UGGC1M03B05 R, genomic survey sequence.	AZ481318	1	Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C., Islam,H., Longacre,S., Mahmoud,M., Meenon,E., Pedersen,T., Reilly,M., Rose,M., Ross,R., Stokes,R., Tingey,A., von Niederhausern,A. and Wright,D., Weiss,R.		Mammalia; Eutheria; Rodentia; Craniata; Vertebrata; Euteleostomi; Eukaryota; Metazoa; Chordata; Craniata; Sciurognathi; Muridae; Murinae; Mus.	Unpublished (2000) Contact: Robert B. Weiss University of Utah Genome Center	

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

RESULT	Query No.	Score	Match Length	DB ID	Description	
1	22	10.0	50	28	AZ481318 1M03B05 AU10838 AU10838	
2	21.6	9.9	50	9	AU1266869 uj08410.x AU107911 AU107911	
C	3	20.8	9.5	43	AU1266863	
C	4	20.8	9.5	50	9	AU107911

SUMMARIES

Result No.	Score	Match Length	DB ID	Description		
1	22	10.0	50	28	AZ481318 1M03B05 AU10838 AU10838	
2	21.6	9.9	50	9	AU1266869 uj08410.x AU107911 AU107911	
C	3	20.8	9.5	43	AU1266863	
C	4	20.8	9.5	50	9	AU107911

Email: ddunn@genetics.utah.edu
 Insert Length: 10000 Std Error: 0.00
 Plate: 0303 row: B column: 05
 Seq primer: CACACAGGAAACAGCTTGTGACC
 Class: plasmid ends
 High quality sequence stop: 50.
 Location/Qualifiers

FEATURES source
 1. .50
 /organism="Mus musculus"
 /mol_type="genomic DNA"
 /strain="C57Bl/6J"
 /db_xref="taxon:10090"
 /clone_id="MUCIM0305B05"
 /sex="Male"
 /lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
 /clone lib="Mouse 10 kb Plasmid UGCCIM Library"
 /note="Vector: pWD42mv; purified Genomic DNA from M.
 musculus C57Bl/6J (male) was obtained from the Jackson
 Laboratory Mouse DNA Resource
 (<http://www.jax.org/resources/documents/dnarecs/>). The DNA
 was hydrodynamically sheared by repeated passage through a
 0.005 inch orifice at constant velocity. The sheared DNA
 was blunt end-repaired with T4 DNA Polymerase and T4
 Polynucleotide kinase. Adapter oligonucleotides were
 ligated to the blunt ends in high molar excess. The
 adapter DNA was purified and size-selected for a 9.5 to
 10.5 kb range using preparative agarose gel
 electrophoresis. Vector DNA was prepared from a derivative
 of pWD42 (gi|473214 [gb|AF12907.1]), a copy-number
 inducible derivative of plasmid R1. The vector was ligated
 with adaptors complementary to the insert adaptors and
 purified. The sheared, adaptered mouse DNA was annealed to
 adapter vector DNA, and transformed into
 chemically-competent E. coli XL10-Gold (Stratagene) cells
 and selected for ampicillin resistance."

ORIGIN

Query Match 10.0%; Score 22; DB 28; Length 50;
 Best Local Similarity 83.3%; Pred. No. 2.8e+04;
 Matches 25; Conservative 0; Mismatches 5;
 Db 4 TTAAGGAGCACATGCCCTTACAGACTG 208
 179 TTAAGGAGCACATGCCCTTACAGACTG 208
 179 TTAAGGAGCACATGCCCTTACAGACTG 208
 179 TTAAGGAGCACATGCCCTTACAGACTG 208

Query Match 10.0%; Score 22; DB 28; Length 50;
 Best Local Similarity 83.3%; Pred. No. 2.8e+04;
 Matches 25; Conservative 0; Mismatches 5;
 Db 4 TTAAGGAGCACATGCCCTTACAGACTG 33

RESULT 2

AU102838 LOCUS AU102838 Sugano Homo sapiens cDNA library Homo sapiens CDNA clone
 DEFINITION CAS09268, mRNA sequence.
 ACCESSION AU102838
 VERSION AU102838.1 GI:13552359
 EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Mammalia: Eutheria; Primates; Catarrhini; Hominidae; Homo.

Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J.,
 Hata,H., Ota,T., Isozaki,T., Tanaka,T., Morishita,S., Okubo,K.,
 Sakai,Y., Nakamura,Y., Suyama,A. and Sugano,S. Diverse transcription initiation revealed by fine, large-scale
 mapping of mRNA start sites
 Embryo Rep.-2 (5), 388-393 (2001)

MEDLINE

PUBMED

COMMENT

Contact: Yukako Suzuki
 Department of Virology
 Institute of Medical Science, University of Tokyo
 4-6-1, Shirokanedai, Minato-ku, Tokyo 108-8639, Japan
 Email: Ysuzuki@ims.u-tokyo.ac.jp, Maruyama, K., Suyama, A. and

Sugano,S. Construction and characterization of a full length-enriched and a 5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997);
 Location/Qualifiers
 1. .50
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone_id="TSAS09268"
 /clone_lib="Sugano Homo sapiens cDNA library"
 ORIGIN
 Query Match 9.9%; Score 21.6; DB 9; Length 50;
 Best Local Similarity 75.0%; Pred. No. 3.7e+04;
 Matches 27; Conservative 0; Mismatches 9; Indels 0; Gaps 0;
 Qy 107 ATGAAAATACGTCAGTGACACTGGAGATACTCC 142
 Db 1 ATATAATATCGGAGGAGAACTGGAGATCA 36
 RESULT 3
 A1266869/c LOCUS A1266869
 DEFINITION uj0a10_x1 Sugano mouse liver mRNA Mus musculus cDNA clone IMAGE:1891290 3' similar to SW:ATP6_MOUSE P00848 ATP SYNTHASE A CHAIN ; mRNA sequence.
 ACCESSION AI266869
 VERSION AI266869.1 GI:3885027
 EST.
 SOURCE Mus musculus (house mouse)
 ORGANISM Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Murinae; Mus.
 1 (bases 1 to 43)
 Marra,M., Hillier,L., Allen,M., Bowles,M., Dietrich,N., Dubuque,T.,
 Geisel,S., Kucaba,T., Lacy,M., Le,M., Martin,J., Morris,B.,
 Schellenberg,K., Steptoe,M., Tan,F., Underwood,K., Moore,B.,
 Theising,B., Wylie,T., Lennon,G., Soares,B., Wilson,R. and
 Waterston,R.
 The WashU-HMMI Mouse EST Project
 Unpublished (1996)
 Contact: Marra,M/Wyatt EST Project
 WashU-HMMI Mouse EST Project
 Washington University School of Medicine
 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
 Tel: 314 286 1800
 Fax: 314 286 1810
 Email: mouseest@watson.wustl.edu
 This clone is available royalty-free through LLNL; contact the
 IMAGE Consortium (infoimage.llnl.gov) for further information.
 MGID:975614
 Trace considered overall poor quality
 Possible reversed clone: similarity on wrong strand
 Seq Primer: custom primer used
 High quality sequence stop: 1.
 Location/Qualifiers
 1. .43
 /organism="Mus musculus"
 /mol_type="mRNA"
 /strain="C57BL/
 /db_xref="taxon:10090"
 /clone_id="IMAGE:1891290"
 /sex="Female"
 /dev_stage="adult"
 /lab_host="DRI10B"
 /clone lib="Sugano mouse liver mRNA"
 /note="Organ: liver; Vector: PME18S-FL3; Site 1: DraIII (CACTGTTG); Site 2: DraIII (C5CATGTC); 1st strand cDNA was primed with an oligo(dT) primer [ATGGCCCTTTTCTTTTCTTT]; double-stranded cDNA was ligated to a DraIII adaptor [TGTTGGCTTCTGG], digested and cloned into distinct DraIII sites of the pME18S-FL3

vector (5' site CACTGTGG, 3' site CACCATGG). XhoI should be used to isolate the cDNA insert. Size selection was performed to exclude fragments <1.5kb. Library constructed by Dr. Sumio Sugano (University of Tokyo Institute of Medical Science). Custom primers for sequencing: 5' end primer CTCCTGCTAAAGTCG and 3' end primer CGACCTGCAGTCGAGCACA."

ORIGIN

Query Match Similarity 9.5%; Score 20.8; DB 9; Length 43;
Best Local Similarity 78.1%; Pred. No. 6e+04;
Matches 25; Conservative 0; Mismatches 7; Indels 0; Gaps 0;
Accession Qy 46 TGGCACCTTCTCCAGGAATAACTGGT 77
Db 35 TGGGCTTCTTCCCAAGAAATGGT 4

RESULT 4
AU107911/C LOCUS AU107911 Sugano Homo sapiens cDNA library EST 30-AUG-2001
DEFINITION AU107911 Sugano Homo sapiens cDNA library Homo sapiens mRNA sequence.
VERSION AU107911.1 GI:13557433

KEYWORDS
ORGANISM
REFERENCE 1 (bases 1 to 50)
AUTHORS Suzuki, Y., Taira, H., Tsunoda, T., Mizushima-Sugano, J., Sese, J., Hata, H., Ota, T., Isogai, T., Tanaka, T., Morishita, S., Okubo, K., Sakaki, Y., Nakamura, Y., Maruyama, K., Sugano, S.
TITLE Diverse transcriptional initiation revealed by fine, large-scale mapping of mRNA start sites
JOURNAL EMBO Rep. 2 (5), 388-393 (2001)
MEDLINE 21270072
PUBMED 11375929
COMMENT Contact: Yutaka Suzuki
Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: ysuzuki@ims.u-tokyo.ac.jp

Suzuki, Y., Yoshitomo-Nakagawa, K., Maruyama, K., Sugano, S., Construction and characterization of a full length-enriched and a 5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).
FEATURES source 1..50
ORIGIN /organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone_lib="Sugano Homo sapiens cDNA library"
/cloner_ref="RMLB0018"

RESULT 6
AU102843 LOCUS AU102843 Sugano Homo sapiens cDNA library EST 30-AUG-2001
DEFINITION AU102843 Sugano Homo sapiens mRNA sequence.
VERSION AU102843.1 GI:13552364
KEYWORDS
ORGANISM
REFERENCE 1 (bases 1 to 50)
AUTHORS Suzuki, Y., Taira, H., Tsunoda, T., Mizushima-Sugano, J., Sese, J., Hata, H., Ota, T., Isogai, T., Tanaka, T., Morishita, S., Okubo, K., Sakaki, Y., Nakamura, Y., Maruyama, K., Sugano, S.
TITLE Diverse transcriptional initiation revealed by fine, large-scale mapping of mRNA start sites
JOURNAL EMBO Rep. 2 (5), 388-393 (2001)

FEATURES source 1..50
ORIGIN /organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone_lib="Sugano Homo sapiens cDNA library"
/cloner_ref="RMLB0018"
COMMENT Contact: Yutaka Suzuki
Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: ysuzuki@ims.u-tokyo.ac.jp
Suzuki, Y., Yoshitomo-Nakagawa, K., Maruyama, K., Sugano, S., Construction and characterization of a full length-enriched and a 5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).

RESULT 5
AU105891/C LOCUS AU105891 Sugano Homo sapiens cDNA library EST 30-AUG-2001
DEFINITION AU105891 Sugano Homo sapiens mRNA sequence.
VERSION AU105891.1 GI:13555412

KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE 1 (bases 1 to 50)
AUTHORS Suzuki, Y., Taira, H., Tsunoda, T., Mizushima-Sugano, J., Sese, J., Hata, H., Ota, T., Isogai, T., Tanaka, T., Morishita, S., Okubo, K., Sakaki, Y., Nakamura, Y., Maruyama, K., Sugano, S.
TITLE Diverse transcriptional initiation revealed by fine, large-scale mapping of mRNA start sites
JOURNAL EMBO Rep. 2 (5), 388-393 (2001)
MEDLINE 21270072
PUBMED 11375929
COMMENT Contact: Yutaka Suzuki
Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: ysuzuki@ims.u-tokyo.ac.jp
Suzuki, Y., Yoshitomo-Nakagawa, K., Maruyama, K., Sugano, S., Construction and characterization of a full length-enriched and a 5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).

/organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="txaxon:9606"
 /clone="CASS1158"
 /clone_lib="Sugano Homo sapiens cDNA library"

ORIGIN

Query Match 8.9%; Score 19 4; DB 9; Length 50;
 Best Local Similarity 70.3%; Pred. No. 1.7e+05;
 Matches 26; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy 106 GATGAAAAATCAGGTGACACTGGAGATAACCA 142
 Db 5 GCTATAAAACAGCGAGGAACACTGGAGATAACCA 41

RESULT 7
 AU102844 LOCUS AU102844 Sugano Homo sapiens cDNA library Homo sapiens mRNA linear EST 30-AUG-2001
 DEFINITION CAS11168 mRNA sequence.

ACCESSION AU102844
KEYWORDS EST,
SOURCE Homo sapiens (human)

ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata,H., Ota,T., Isogai,T., Tanaka,T., Morishita,S., Okubo,K., Sakaki,Y., Nakamura,Y., Sugiyama,A. and Sugano,S.

TITLE Diverse transcriptional initiation revealed by fine, large-scale mapping of mRNA start sites

JOURNAL ENB Rep. 2 (5), 388-393 (2001)
PUBMED 121270072
COMMENT Contact: Yutaka Suzuki
 Department of Virology
 Institute of Medical Science, University of Tokyo
 4-6-1, Shirokanedai, Minato-ku, Tokyo 108-8639, Japan
 Email: yuzuki@ims.u-tokyo.ac.jp
 Suzuki,Y., Yoshitomo-Nakajawa,K., Maruyama,K., Suyama,A. and Sugano,S. Construction and characterization of a full length-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).

FEATURES Source /clone_lib=Sugano Homo sapiens cDNA library

ORGANISM Mus musculus (house mouse)

Mus musculus
 Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognath; Muridae; Murinae; Mus.
 1 (bases 1 to 40)

REFERENCE Authors Marra,M., Hillier,L., Allen,M., Bowles,M., Dietrich,N., Dubuge,T., Geisel,S., Kucaba,T., Lacy,M., Le,M., Martin,J., Morris,M., Schallenberg,K., Stepcie,M., Tat,F., Underwood,K., Moore,B., Thaising,B., Wylie,T., Lennon,G., Soares,B., Wilson,R. and Waterston,R.

COMMENT Unpublished (1996) The WashU-HMM Mouse EST Project
 Contact: Marra M/Mouse EST Project
 Washington University School of Medicine
 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
 Tel: 314 286 1800
 Fax: 314 286 1810
 Email: mouseest@watson.wustl.edu
 This clone is available royalty-free through LLNL ; contact the IMAGE Consortium (info@image.llnl.gov) for further information.
 MGI:35961

Possible reversed clone: similarity on wrong strand
 Seq Primer: ~28m3 rev1 ET from Amersham
 High Quality sequence stop: 1.

FEATURES source /organism="Mus musculus"
 /mol_type="mRNA"
 /db_xref="traxon:10090"
 /clone="IMAGE:585013"
 /tissue_type="melanoma"
 /dev_stage="M2 cell's"
 /lab_host="SOLR (Kanamycin resistant)"
 /clone_idb="Stratagene mouse melanoma (#937312)"
 /note="Organ: skin; Vector: Bluescript SK; Site: 1;
 Ec01; Site: XbaI; Cloned: Unidirectionally. Primer:
 Oligo dT. From M2 cells, a highly metastatic derivative of
 the K-1735 (mouse) melanoma. Average insert size: 1.0 kb;
 Uni-ZAP XR Vector; ~5' adaptor sequence: 5' GAATTGGCACGAG
 3' -~3', adaptor sequence: 5' CTCGAGTTTTTTTTTTTTT 3'"

ORIGIN Query Match 8.6%; Score 18 8; DB 9; Length 40;
 Best Local Similarity 76.7%; Pred. No. 2.4e+05;
 Matches 23; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

Qy 171 GANGTGTAAGAGCAAGATGCCCTT 200
 Db 5 GCAGTTCTTTGAAACGCCATGCCCTT 34

RESULT 9
 AL628983 LOCUS AL628983 50 bp mRNA linear EST 19-NOV-2003
 DEFINITION AL628983 XGC-gastrula Silurana tropicalis cDNA clone TGas011g16 5', mRNA sequence.
 AL628983
 ACCESSION AL628983.1 GI:1698466
 VERSION EST
 KEYWORDS Silurana tropicalis (western clawed frog)
 SOURCE Silurana tropicalis
 ORGANISM Silurana; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Amphibia; Batrachia; Anura; Mesobatrachia; Pipidae; Xenopodinae; Silurana.
 1 (bases 1 to 50)

REFERENCE Authors Croning,M.D.R., Ashurst,J.L., Taylor,R., Zorn,A.M. and Rogers,J.
TITLE
JOURNAL
COMMENT Sanger Xenopus EST project 2001 (11_2003)
 Unpublished (2003)
 Contact: Ruchie E
 Sanger Institute
 Hinxtion, Cambridge, CB10 1SA, UK
 Email: trop@sanger.ac.uk

RESULT 8
 AA137304 LOCUS AA137304 40 bp mRNA linear EST 09-FEB-1997
 DEFINITION mg80b07_r1 Stratagene mouse melanoma (#937312) Mus musculus cDNA clone IMAGE:585013 5' similar to TR:G1002369 COATOMER PROTEIN : mRNA sequence.

ACCESSION AA137304
VERSION 1
KEYWORDS

This sequence is from a Xenopus Gene Collection (XGC) library constructed by Aaron M. Zorn.
 cDNA was oligo dT primed from 5ug of poly A+ RNA from stages 10-13 gastrulae. EcoRI-NotI cut cDNA was then ligated into pcS107 with EcoRI at the 5' end and NotI at the 3' end.

Vector: pcS107; Site 1: EcoRI; Site 2: NotI

Host: Escherichia coli XL1-blue

Sanger Xenopus tropicalis EST project 2001

TROPICALIS_SEQUENCE_ID: TGS010196.dlkSP6

Sequencing Primer: SPD'

Location/Qualifiers

1..50

/organism="Silurana tropicalis"

/mol_type="mRNA"

/db_xref="taxon:8364"

/clone="TGas0196"

/dev_stage="Gastrula (stages 10-12 mixed)"

/lab_host="Escherichia coli XL1-blue"

/clone_lib="XGC-gastrula"

/note="Vector: pcS107; Site_1: EcoRI; Site_2: NotI; cDNA was oligo dT primed from 5ug of poly A+ RNA from stages 10-13 gastrulae. EcoRI-NotI cut cDNA was then ligated into pcS107 with EcoRI at the 5' end and NotI at the 3' end."

ORIGIN

8.6%; Score 18.8;

DB 9; Length 50;

Best Local Similarity 68.4%; Pred. No. 2.7e+05;

Matches 26; Conservative 0; N mismatches 12;

Indels 0; Gaps 0;

Accession AU102832

LOCUS AU102832 Sugano Homo sapiens cDNA library

DEFINITION Homo sapiens cDNA clone

CAS01996, mRNA sequence.

ACCESSION AU102832

VERSION EST.

KEYWORDS

Homo sapiens (human)

ORGANISM

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata,H., Ota,T., Isogai,T., Tanaka,T., Morishita,S., Okubo,K., Sakaki,Y., Nakamura,Y., Suyama,A. and Sugano,S.

TITLE Diverse transcriptional initiation revealed by fine, large-scale mapping of mRNA start sites

JOURNAL EMBO Rep. 2 (5), 388-393 (2001)

PUBMED 11375929

COMMENT Contact: Yutaka Suzuki

Department of Virology

Institute of Medical Science, University of Tokyo

4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan

Email: yusuzuki@ims.u-tokyo.ac.jp

Suzuki,Y., Yoshitomo-Nakagawa,K., Maruyama,K., Suyama,A. and

Sugano,S. Construction and characterization of a full

length-enriched and a 5'-end-enriched cDNA library. Gene 200 (1-2),

149-156 (1997).

FEATURES Location/Qualifiers

1..50

/organism="Homo sapiens"

/mol_type="mRNA"

/db_xref="taxon:9606"

/clone="TGC04067"

/clone_lib="Sugano Homo sapiens cDNA library"

ORIGIN

8.5%; Score 18.6;

DB 9; Length 50;

Best Local Similarity 65.9%; Pred. No. 3.1e+05;

Matches 27; Conservative 0; N mismatches 14;

Indels 0; Gaps 0;

Accession AU10279

LOCUS AU10279 Sugano Homo sapiens cDNA library

DEFINITION Homo sapiens cDNA clone

HRC0165, mRNA sequence.

ACCESSION AU10279

VERSION EST.

KEYWORDS

Homo sapiens (human)

ORGANISM

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata,H., Ota,T., Isogai,T., Tanaka,T., Morishita,S., Okubo,K.,

ORIGIN

8.5%; Score 18.6;

DB 9; Length 50;

Best Local Similarity 65.9%; Pred. No. 3.1e+05;

Matches 27; Conservative 0; N mismatches 14;

Indels 0; Gaps 0;

Accession AU10279

LOCUS AU10279 Sugano Homo sapiens cDNA library

DEFINITION Homo sapiens cDNA clone

HRC0165, mRNA sequence.

ACCESSION AU10279

VERSION EST.

KEYWORDS

Homo sapiens (human)

ORGANISM

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata,H., Ota,T., Isogai,T., Tanaka,T., Morishita,S., Okubo,K.,

ORIGIN

8.5%; Score 18.8;

DB 9; Length 50;

Best Local Similarity 76.7%; Pred. No. 2.7e+05;

Matches 23; Conservative 0; N mismatches 7;

Indels 0; Gaps 0;

Accession AU10279

LOCUS AU10279 Sugano Homo sapiens cDNA library

DEFINITION Homo sapiens cDNA clone

HRC0165, mRNA sequence.

ACCESSION AU10279

VERSION EST.

KEYWORDS

Homo sapiens (human)

ORGANISM

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata,H., Ota,T., Isogai,T., Tanaka,T., Morishita,S., Okubo,K.,

ORIGIN

8.5%; Score 18.8;

DB 9; Length 50;

Best Local Similarity 76.7%; Pred. No. 2.7e+05;

Matches 23; Conservative 0; N mismatches 7;

Indels 0; Gaps 0;

Accession AU10279

LOCUS AU10279 Sugano Homo sapiens cDNA library

DEFINITION Homo sapiens cDNA clone

HRC0165, mRNA sequence.

ACCESSION AU10279

VERSION EST.

KEYWORDS

Homo sapiens (human)

ORGANISM

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata,H., Ota,T., Isogai,T., Tanaka,T., Morishita,S., Okubo,K.,

ORIGIN

8.5%; Score 18.8;

DB 9; Length 50;

Best Local Similarity 76.7%; Pred. No. 2.7e+05;

Matches 23; Conservative 0; N mismatches 7;

Indels 0; Gaps 0;

Accession AU10279

LOCUS AU10279 Sugano Homo sapiens cDNA library

DEFINITION Homo sapiens cDNA clone

HRC0165, mRNA sequence.

ACCESSION AU10279

VERSION EST.

KEYWORDS

Homo sapiens (human)

ORGANISM

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata,H., Ota,T., Isogai,T., Tanaka,T., Morishita,S., Okubo,K.,

ORIGIN

8.5%; Score 18.8;

DB 9; Length 50;

Best Local Similarity 76.7%; Pred. No. 2.7e+05;

Matches 23; Conservative 0; N mismatches 7;

Indels 0; Gaps 0;

Accession AU10279

LOCUS AU10279 Sugano Homo sapiens cDNA library

DEFINITION Homo sapiens cDNA clone

HRC0165, mRNA sequence.

ACCESSION AU10279

VERSION EST.

KEYWORDS

Homo sapiens (human)

ORGANISM

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata,H., Ota,T., Isogai,T., Tanaka,T., Morishita,S., Okubo,K.,

ORIGIN

8.5%; Score 18.8;

DB 9; Length 50;

Best Local Similarity 76.7%; Pred. No. 2.7e+05;

Matches 23; Conservative 0; N mismatches 7;

Indels 0; Gaps 0;

Accession AU10279

LOCUS AU10279 Sugano Homo sapiens cDNA library

DEFINITION Homo sapiens cDNA clone

HRC0165, mRNA sequence.

ACCESSION AU10279

VERSION EST.

KEYWORDS

Homo sapiens (human)

ORGANISM

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata,H., Ota,T., Isogai,T., Tanaka,T., Morishita,S., Okubo,K.,

ORIGIN

8.5%; Score 18.8;

DB 9; Length 50;

Best Local Similarity 76.7%; Pred. No. 2.7e+05;

Matches 23; Conservative 0; N mismatches 7;

Indels 0; Gaps 0;

Accession AU10279

LOCUS AU10279 Sugano Homo sapiens cDNA library

DEFINITION Homo sapiens cDNA clone

HRC0165, mRNA sequence.

ACCESSION AU10279

VERSION EST.

KEYWORDS

Homo sapiens (human)

ORGANISM

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata,H., Ota,T., Isogai,T., Tanaka,T., Morishita,S., Okubo,K.,

ORIGIN

8.5%; Score 18.8;

DB 9; Length 50;

Best Local Similarity 76.7%; Pred. No. 2.7e+05;

Matches 23; Conservative 0; N mismatches 7;

Indels 0; Gaps 0;

Accession AU10279

LOCUS AU10279 Sugano Homo sapiens cDNA library

DEFINITION Homo sapiens cDNA clone

HRC0165, mRNA sequence.

ACCESSION AU10279

VERSION EST.

KEYWORDS

Homo sapiens (human)

ORGANISM

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata,H., Ota,T., Isogai,T., Tanaka,T., Morishita,S., Okubo,K.,

ORIGIN

8.5%; Score 18.8;

DB 9; Length 50;

Best Local Similarity 76.7%; Pred. No. 2.7e+05;

Matches 23; Conservative 0; N mismatches 7;

Indels 0; Gaps 0;

Accession AU10279

LOCUS AU10279 Sugano Homo sapiens cDNA library

DEFINITION Homo sapiens cDNA clone

HRC0165, mRNA sequence.

ACCESSION AU10279

VERSION EST.

KEYWORDS

Homo sapiens (human)

ORGANISM

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata,H., Ota,T., Isogai,T., Tanaka,T., Morishita,S., Okubo,K.,

ORIGIN

8.5%; Score 18.8;

DB 9; Length 50;

Best Local Similarity 76.7%; Pred. No. 2.7e+05;

Matches 23; Conservative 0; N mismatches 7;

Indels 0; Gaps 0;

Accession AU10279

LOCUS AU10279 Sugano Homo sapiens cDNA library</p

FEATURES Source
1. 45 /Organism="Zea mays"
/mol type="genomic DNA"
/cuiElvar="mixed background W23/A188/B73/K55"
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/tissue type="leaf"
/dev_stage "adult"
/lab_host="DH10B"
/clone lib="1119 - Rescuem Grid AA"
/note "Organ: leaf; Vector: Rescuem (engineered from pBlueScript backbone); Site 1: BamHI; Site 2: BgIII; Rescuem is a 4.9 kb, modified maize Mu transposon designed to allow plasmid rescue from total genomic DNA. Mu elements insert preferentially into transcription units. For more information on Rescuem, go to the web site www.zmdb.iastate.edu and follow the links for 'Rescuem'. Grid AA was grown at UC San Diego in 2002. DNA was extracted from leaf strips, double digested using BamHI and BgIII, and ligated to form circular plasmids. DH10B cells were transformed and then screened on LB plates with ampicillin."

ORIGIN Query Match Score 18.2; DB 29; Length 45;
Best Local Similarity 66.7%; Pred. No. 3.8e+05;
Matches 26; Conservative 0; Mismatches 13; Indels 0; Gaps 0;
Qy 44 GTTGGACCTTCCTCCAGCAATAACTGGCTCTG 82
Db 45 GATCCCTCCCTCCATCAAAGTAAATGAGCTGGTCTG 7

GenCore version 5.1.6
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score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

OM nucleic - nucleic search, using sw model

Run on: May 26, 2004, 05:10:28 ; Search time 982.615 Seconds
(without alignments)

5822.506 Million cell updates/sec

Title: US-10-048-046-1_COPY_997_1128

Perfect score: 132

Sequence: 1 acatggatcatctgcaggaa.....ctacactggcgctgtcccggt 132

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 3470272 seqs, 2167151695 residues

Total number of hits satisfying chosen parameters:

1603530

Minimum DB seq length: 0

Maximum DB seq length: 50

Post-processing: Minimum Match 0%
Maximum Match 10%

Listing first 45 summaries

Database :

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GenBml:*  
1: gb_ba:  
2: gb_ntg:  
3: gb_in:  
4: gb_cm:  
5: gb_ov:  
6: gb_dat:  
7: gb_bh:  
8: gb_bp1:  
9: gb_dx:  
10: gb_xo:  
11: gb_sts:  
12: gb_sy:  
13: gb_in:  
14: gb_v1:  
15: em_ba:  
16: em_fun:  
17: em_hum:  
18: em_in:  
19: em_mu:  
20: em_cm:  
21: em_or:  
22: em_ov:  
23: em_dat:  
24: em_bh:  
25: em_bp1:  
26: em_v0:  
27: em_sts:  
28: em_un:  
29: em_v1:  
30: em_ntg_hum:  
31: em_ntg_inv:  
32: em_ntg_other:  
33: em_ntg_mus:  
34: em_ntg_pn:  
35: em_ntg_rd:  
36: em_ntg_mam:  
37: em_ntg_vrt:  
38: em_sv:  
39: em_ntgo_hum:  
40: em_ntgo_mus:  
41: em_ntgo_other:
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SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description	
1	20.2	15.3	47	6 AR29094	AR29094 Sequence	
2	19.6	14.8	48	6 AX611935	AX611935 Sequence	
3	19.2	14.5	47	6 I07024	I07024 Sequence	
4	19.2	14.5	47	6 I27626	I27626 Sequence	
5	19	14.4	47	6 I07021	I07021 Sequence	
6	19	14.4	47	6 I27623	I27623 Sequence	
7	18.2	13.8	36	6 AX740373	AX740373 Sequence	
8	18.2	13.8	41	6 A01533	A01533 Joining reg	
9	18.2	13.8	48	6 AR051077	AR051077 Sequence	
10	18.2	13.8	48	6 AR430291	AR430291 Sequence	
c	11	18	13.6	45	6 AR078468	AR078468 Sequence
c	12	18	13.6	47	6 A26491	A26491 Synthetic I
c	13	18	13.6	47	6 AR118511	AR118511 Sequence
c	14	18	13.6	47	6 AR153892	AR153892 Sequence
c	15	18	13.6	48	6 AX611836	AX611836 Sequence
c	16	17.6	13.3	42	6 E16421	E16421 DNA encodin
c	17	17.6	13.3	45	6 E16414	E16414 DNA encodin
c	18	17.6	13.3	48	6 E16420	E16420 DNA encodin
c	19	17.4	13.2	32	6 AR373963	AR373963 Sequence
c	20	17.4	13.2	40	6 OCTR07	OCTR07 Sequence
c	21	17.2	13.0	43	6 V00893	V00893 Rabbit trop
c	22	17.2	13.0	45	6 E16424	E16424 DNA encodin
c	23	17.2	13.0	45	6 E16427	E16427 DNA encodin
c	24	17.2	13.0	46	6 AR363127	AR363127 Sequence
c	25	17.2	13.0	46	6 AX769580	AX769580 Sequence
c	26	17	12.9	36	6 I91771	I91771 Sequence
c	27	17	12.9	47	6 AR289000	AR289000 Sequence
c	28	17	12.9	47	6 AX378744	AX378744 Sequence
c	29	17	12.9	48	6 AR031652	AR031652 Sequence
c	30	17	12.9	48	6 AR032616	AR032616 Sequence
c	31	17	12.9	48	6 I29356	I29356 Sequence
c	32	17	12.9	48	6 I90270	I90270 Sequence
c	33	17	12.9	48	6 I91030	I91030 Sequence
c	34	17	12.9	48	6 AR209280	AR209280 Sequence
c	35	16.8	12.7	39	6 I89979	I89979 Sequence
c	36	16.8	12.7	39	6 A22325	A22325 Primer O-2
c	37	16.8	12.7	39	6 A22326	A22326 Primer O-2
c	38	16.8	12.7	40	6 AR253252	AR253252 Sequence
c	39	16.8	12.7	40	6 BD138012	BD138012 Lectomedii
c	40	16.8	12.7	47	6 AR001265	AR001265 Sequence
c	41	16.8	12.7	47	6 I23424	I23424 Sequence
c	42	16.8	12.7	48	6 BD182587	BD182587 Anti TRAI
c	43	16.8	12.7	50	6 AR032939	AR032939 Sequence
c	44	16.8	12.7	50	6 E50843	E50843 Process for
c	45	16.8	12.7	50	6 I29679	I29679 Sequence

ALIGNMENTS

RESULT 1	AR29094	LOCUS	47 bp	DNA
DEFINITION	Sequence 2729 from patent US 6537751.	SEQUENCE		
ACCESSION	AR29094	VERSION		
KEYWORDS		SOURCE		
		ORGANISM		
		Unclassified.		
		1 (bases 1 to 47)		
REFERENCE	Cohen,D., Chunakov,I. and Blumenfeld,M.			
AUTHORS				
TITLE	Biallelic markers for use in constructing a high density			
	disequilibrium map of the human genome			
	Patent: US 6537751-A 2729 25-MAR-2003;			
JOURNAL				

Pred. No. is the number of results predicted by chance to have a

FEATURES Location/Qualifiers
 Source 1.
 .organism="unknown"
 /mol_type="genomic DNA"

ORIGIN

Query Match Score 20.2; DB 6; Length 47;
 Best Local Similarity 65.1%; Pred. No. 1.4e+06;
 Matches 28; Conservative 1; Mismatches 14; Indels 0; Gaps 0;

Qy 17 AGGACCTGGTGCACACTGGTGAATTCAGGCTGTGCA 59
 Db 5 AGGTCTGAGCAATGGTGGACATGGTAAAGCTCCATCCA 47

RESULT 2
 AX611835 AX611835 48 bp DNA linear PAT 17-FEB-2003
 LOCUS Sequence 2860 from Patent WO200728882.
 DEFINITION
 ACCESSION AX611835
 VERSION AX611835.1 GI:28407264
 KEYWORDS SOURCE
 Homo sapiens (human)
 Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Euteleostomi;
 Mammalia; Eutheria; Primates; Cetarrhini; Hominidae; Homo.

REFERENCE AUTHORS
 Cullen, P. and Seedorf, U.
 TITLE Patent : WO 02072882-A 2860 19-SEP-2002;
 JOURNAL OGHAM GmbH (DE)
 FEATURES Location/Qualifiers
 1..48
 /organism="Homo sapiens"
 /mol_type="unassigned DNA"
 /db_Xref="taxon:9606"

ORIGIN

Query Match Score 19.6; DB 6; Length 48;
 Best Local Similarity 73.5%; Pred. No. 1.9e+06;
 Matches 25; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

Qy 23 TGCTGCAACGACTGGTGAGTTGCGGCCCTGCAT 56
 Db 12 TGATAAACGACTTCAAGCTGGAGCTGGACCCGGCAT 45

RESULT 3
 107024.c LOCUS I07024 Sequence 6 from Patent EP 0314317.
 DEFINITION I07024
 ACCESSION I07024.1 GI:5903777
 VERSION
 KEYWORDS Unknown.
 SOURCE Unknown.
 ORGANISM Unclassified.

REFERENCE AUTHORS
 Capon, D.J. and Gregory, T.J.
 TITLE Adhesion variants, nucleic acid encoding them and compositions
 comprising them
 Patent : EP 0314317-A1 6 03-MAY-1989;
 JOURNAL FEATURES
 Source 1..47
 /organism="unknown"
 /mol_type="unassigned DNA"

ORIGIN

Query Match Score 19.2; DB 6; Length 47;
 Best Local Similarity 67.5%; Pred. No. 2.3e+06;
 Matches 27; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

Qy 74 CTTGCTACTGGGCTGGATGGACCGCTCGTCCGTGTC 113
 Db 74 CTTGCTACTGGGCTGGATGGACCGCTCGTCCGTGTC 113

RESULT 4
 I27626/c LOCUS I27626 Sequence 18 from patent US 5565335.
 DEFINITION
 ACCESSION I27626
 VERSION I27626.1 GI:1818402
 KEYWORDS SOURCE Unknown.
 ORGANISM Unclassified.
 REFERENCE 1 (bases 1 to 47)
 AUTHORS Capon, D.J. and Gregory, T.J.
 TITLE Adhesion variants
 JOURNAL Patent : US 5565335-A 18 15-OCT-1996;
 FEATURES Location/Qualifiers
 1..47
 source
 /organism="unknown"
 /mol_type="unassigned DNA"

ORIGIN

Query Match Score 19.2; DB 6; Length 47;
 Best Local Similarity 67.5%; Pred. No. 2.3e+06;
 Matches 27; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

Qy 74 CTTGCACTCGGGCTGGATGGACCGCTCGTCCGTGTC 113
 Db 46 CTTGCTCTGGCTGCACTGGGCTGGATGGACCGCTCGTCCGTGTC 113

RESULT 5
 I07021 LOCUS I07021 Sequence 3 from Patent EP 0314317.
 DEFINITION
 ACCESSION I07021
 VERSION I07021.1 GI:590374
 KEYWORDS SOURCE Unknown.
 ORGANISM Unclassified.

REFERENCE AUTHORS
 1 (bases 1 to 47), Capon, D.J. and Gregory, T.J.
 TITLE Adhesion variants, nucleic acid encoding them and compositions
 comprising them
 Patent : EP 0314317-A1 3 03-MAY-1989;
 JOURNAL FEATURES
 source 1..47
 /organism="unknown"
 /mol_type="unassigned DNA"

ORIGIN

Query Match Score 19; DB 6; Length 47;
 Best Local Similarity 71.4%; Pred. No. 2.6e+06;
 Matches 25; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

Qy 74 CTTGCTACTGGGCTGGATGGACCGCTCGTCCGTGTC 108
 Db 12 CTTGCTCTGGCTGCACTGGGCTGGATGGACCGCTCGTCCGTGTC 46

RESULT 6
 I27623 LOCUS I27623 Sequence 15 from patent US 5565335.
 DEFINITION
 ACCESSION I27623
 VERSION I27623.1 GI:1818399
 KEYWORDS SOURCE Unknown.
 ORGANISM Unclassified.

REFERENCE 1 ('bases 1 to 47)
 AUTHORS Capon,D.J. and Gregory,T.J.
 TITLE Adhesion Variants
 JOURNALS Patent: US 565335-A 15 OCT-1996;
 FEATURES Location/Qualifiers
 source 1.
 /organism="unknown"
 /mol_type="unassigned DNA"
 ORIGIN

Query Match 13.8%; Score 18.2; DB 6; Length 41;
 Best Local Similarity 74.2%; Pred. No. 4.2e+06;
 Matches 23; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

RESULT 9
 Query Match 13.8%; Score 18.2; DB 6; Length 41;
 Best Local Similarity 74.2%; Pred. No. 4.2e+06;
 Matches 23; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

Qy 40 AGTTGGAGCCGTGATGCCACGTTCTGC
 Db 10 AGTATGAAACCTGCTGCCTTCGGTG 40

ORIGIN

Query Match 14.4%; Score 19; DB 6; Length 47;
 Best Local Similarity 71.4%; Pred. No. 2.6e+06;
 Matches 25; Conservative 0; Mismatches 10;
 Indels 0; Gaps 0;

RESULT 7
 AX740373/c
 LOCUS AX740373 36 bp DNA
 DEFINITION Sequence 107 from Patent EP1300419.
 ACCESION AX740373
 KEYWORDS GI:30523546
 SOURCE Synthetic construct
 ORGANISM Artificial sequences.

REFERENCE 1
 AUTHORS Buttner,C., Schwarz,M., Knackmuss,S., Peter,K., Roettgen,P. and Little,M.
 TITLE Antibody of human origin for inhibiting thrombocyte aggregation
 JOURNAL EP 1300419-A 107 09-APR-2003;
 FEATURES Affimed Therapeutics AG (DE)
 source 1.
 /organism="synthetic construct"
 /mol_type="genomic DNA"
 /db_xref="taxon:32630"
 /note="Oligonucleotide"

ORIGIN

Query Match 13.8%; Score 18.2; DB 6; Length 36;
 Best Local Similarity 87.0%; Pred. No. 4.3e+06;
 Matches 20; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

RESULT 8
 A01533
 LOCUS A01533 41 bp DNA linear
 DEFINITION Joining region of the bacterial origin and part of pBR322 origin in PBB9028.
 ACCESSION A01533
 VERSION A01533.1 GI:344373
 KEYWORDS Synthetic construct
 SOURCE Synthetic construct
 ORGANISM Artificial sequences.
 FEATURES 1 ('bases 1 to 41)
 /organism="synthetic construct"
 /mol_type="unassigned DNA"
 /db_xref="taxon:32630"
 source

ORIGIN

Query Match 13.8%; Score 18.2; DB 6; Length 48;
 Best Local Similarity 48.9%; Pred. No. 4e+06;
 Matches 23; Conservative 16; Mismatches 16; Indels 0; Gaps 0;

RESULT 11
 AR078468/c
 LOCUS AR078468 45 bp DNA linear
 DEFINITION Sequence 8 from patent US 5952664.
 ACCESION AR078468

VERSION	AR078468.1	GI:10005214	FEATURES	Location/Qualifiers
KEYWORDS	Unknown.	source	1..47	/organism="unknown"
ORGANISM	Unclassified.			/mol_type="unassigned DNA"
REFERENCE	1 (bases 1 to 45)			
AUTHORS	Friedhoff,A.J., Basham,D.A. and Miller,J.C.			
TITLE	Psychosis protecting nucleic acid, peptides, compositions and method of use			
JOURNAL	Patent: US 5962664-A 8 05-OCT-1999;			
FEATURES	Location/Qualifiers			
source	1..45			
	/organism="unknown"			
	/mol_type="unassigned DNA"			
ORIGIN				
Query Match	13.6%; Score 18; DB 6; Length 45;			
Best Local Similarity	80.8%; Pred. No. 4.6e+06;			
Matches	21; Conservative 0; Mismatches 5;			
Indels	0; Gaps 0;			
Db				
RESULT 12				
AR26491/_C	A26491	47 bp	DNA	linear
LOCUS	Synthetic IDUA probe ID47.			
DEFINITION				
ACCESSION	A26491			
VERSION	29			
KEYWORDS				
SOURCE				
ORGANISM	synthetic construct			
	synthetic construct			
	artificial sequences.			
REFERENCE	1 (bases 1 to 47)			
AUTHORS	Hopwood,J.J., Orsborn,A.M., Anson,D.S., Clements,P.R., Morris,C.P., Nelson,P.V. and Scott,H.S.			
TITLE	Synthetic alpha-L-iduronidase and genetic sequences encoding same			
JOURNAL	Patent: WO 9310244-A 1 27-MAY-1993;			
FEATURES	WOMENS & CHILDRENS HOSPITAL (AU)			
source	Location/Qualifiers			
	1..47			
	/organism="synthetic construct"			
	/mol_type="unassigned DNA"			
	/db_xref="taxon:32230"			
ORIGIN				
Query Match	13.6%; Score 18; DB 6; Length 47;			
Best Local Similarity	64.3%; Pred. No. 4.5e+06;			
Matches	27; Conservative 0; Mismatches 15;			
Indels	0; Gaps 0;			
Db				
RESULT 13				
AR11851/_C	AR11851	47 bp	DNA	linear
LOCUS	Sequence 1 from patent US 6149909.			
DEFINITION				
ACCESSION	AR11851			
VERSION	AR11851..1			
KEYWORDS				
SOURCE				
ORGANISM	Unknown.			
	Unclassified.			
REFERENCE	1 (bases 1 to 47)			
AUTHORS	Scott,H.Steele., Anson,D.Stewart., Orsborn,A.Marie., Nelson,P.Victor., Clements,P.Roy., Morris,C.Philip. and Hopwood,J.Joseph.			
TITLE	Synthetic alpha-L-iduronidase and genetic sequences encoding same			
JOURNAL	Patent: US 6149909-A 1 21-NOV-2000;			

Qy 23 TGCTGCAACGACTGGCTGAGTTGCAGGCCCGCAT 56
Db 12 TGATAAATGACTTCAGGTTGGAGCCGGCAT 45

Search completed: May 26, 2004, 07:39:18
Job time : 984.615 secs

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run on:      May 26, 2004, 05:01:38 ; Search time 111.477 Seconds
              (without alignments)
              5030.293 Million cell updates/sec

Title:      US-10-048-046-1_COPY_997_1128
Perfect score: 132
Sequence:   1 acatgcataatctggcaggaa.....ctacctggccgtgtcccggtg 132

Scoring table: IDENTITY_NUC
                Gapop 10.0 , Gapext 1.0

Searched:   3373863 seqs, 212409941 residues

Total number of hits satisfying chosen parameters: 3185356

Minimum DB seq length: 0
Maximum DB seq length: 50

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post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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database : N_Genesegn_2yuan4;
1: genesegn1980s;*
2: genesegn1990s;*
3: genesegn2000s;*
4: genesegn2001as;*
5: genesegn2001bs;*
6: genesegn2002s;*
7: genesegn2003as;*
8: genesegn2003bs;*
9: genesegn2003cs;*
10: genesegn2004s;*
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No. is the number of results predicted by chance to have a greater than or equal to the score of the result being printed, is derived by analysis of the total score distribution.

הנומינטים

Result No.	Score	Query Match	Length	DB ID	Description
c 1	20.2	15.3	42	Ab195873	DPL-rela
c 2	19.9	14.5	50	ABD31850	Add31850 Synthetic
c 3	19	14.4	47	Aaz68382	Human map
c 4	18.8	14.2	46	Abn83043	Abn83043 Human ank
c 5	18.2	13.8	36	ADE03377	Human imm
c 6	18.2	13.8	48	Aav60897	Oligonucle
c 7	18.2	13.8	48	ADD5968	Heavy cha
c 8	18	13.6	47	AAg42415	IDUA prim
c 9	18	13.6	48	AbS6153	PCR prime
c 10	18	13.6	50	ABZ01079	Human leu
c 11	17.8	13.5	50	Aa131778	Human SNP
c 12	17.6	13.3	42	Aav02057	Mutated h
c 13	17.6	13.3	45	AAV02046	hcs-15 pe
c 14	17.6	13.3	48	Aav02056	Mutated h
c 15	17.6	13.3	50	AA134532	Human SNP
c 16	17.4	13.2	28	Aaf30356	Human che
c 17	17.4	13.2	49	Acf04078	Cdc20 sup
c 18	17.2	13.0	41	ABN83042	Human ank
c 19	17.2	13.0	41	ABY75713	Tumour su
c 20	17.2	13.0	45	Aav02060	Mutated h
c 21	17.2	13.0	45	Aav02063	Mutated h
c 22	17.2	13.0	46	AAN60796	Sequence he
c 23	17.2	13.0	46	Abn60795	Feline he

ALIGNMENTS

RESULT 1	
ID	ABL95873
ID	ABL95873 standard; DNA; 42 BP.
XX	
AC	ABL95873;
XX	
DT	19-JUN-2002 (First entry)
XX	
DE	LLPL-related oligonucleotide #2.
XX	
KW	Recombinant protein production; drug; reagent; food stuff; ss
XX	
XX	
OS	Unidentified.

WO200208417-A1

31-JAN-2002.
25-JUL-2001; 2001WO-JP006392.
25-JUL-2000; 2000JP-00229064.

Query Match 15.3%; Score 20.2; DB 6; Length 42;
 Best Local Similarity 68.3%; Pred. No. 1.6e+04;
 Matches 28; Conservative 0; Mismatches 13; Indels 0; Gaps 0;
 XX ID AAZ63382 standard; DNA; 47 BP.

RESULT 3
 ADD31850/C Human map-related biallelic marker SEQ ID NO:2729.
 ID ADD1850 standard; DNA; 50 BP.

AC AAZ31850;
 XX Human Genome; biallelic marker; high density disequilibrium map;
 KW genomic map; haplotype; phenotype; polymorphic base; Genotyping;
 AC haplotyping; hybridisation; identification; characterisation; diagnosis;
 KW single nucleotide polymorphism; SNP; ds.

DT 10-SEP-2001 (first entry)
 XX Homo sapiens.

DB Location/Qualifiers
 XX Key
 XX variation
 FT replace(24,C)
 FT /tag= a
 /standard_name= "single nucleotide polymorphism"

OS XX
 PN WO9954500-A2.
 XX
 PN 28-OCT-1999.
 PD XX
 PP 21-APR-1999; 99WO-IB000822.
 PR XX
 PR 21-APR-1998; 98US-0082614P.
 PA XX
 PR 23-NOV-1998; 98US-0109732P.
 PA (GEST) GENSET.

PI XX
 PI Cohen D, Blumenfeld M, Chumakov I;
 DR WPI; 2000-013267/01.

XX Novel biallelic markers used to construct a high density disequilibrium map of the human genome.

XX
 PS Claim 3; Page 812; 2745pp; English.

XX
 XX AAZ65654 to AAZ69578 represent human biallelic markers from the present invention, which contain a polymorphic base at position 24 of their nucleotide sequences. AAZ69579 to AAZ7740 represent amplification primers for the biallelic markers. The biallelic markers of the invention have a variety of uses: they can be used for high density mapping of the human genome, and in complex association studies and haplotyping studies which are useful in determining the genetic basis for disease states. Compositions and methods of the invention can also be useful for the identification of the targets for the development of pharmaceutical agents and diagnostic methods, as well as the characterisation of the differential efficacious responses to and side effects from pharmaceutical agents acting on a disease as well as other treatment. N.B. The SRO ID NOS 2852, 2913, 2914, 3035, 3096, 3157, 3227, 3297 and 3367, are not actually given a sequence in the Sequence Listing from the present invention.

XX Sequence 47 BP; 11 A; 13 C; 10 G; 13 T; 0 U; 0 Other;

XX Query Match 14.4%; Score 19; DB 3; Length 47;
 Best Local Similarity 65.1%; Pred. No. 3.7e+04;
 Matches 28; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

SQ Query 17 AGGACTCTGCTGCGACTGGCTGAGTTTGAGCCCTGGCATACA 59
 DB 5 AGGTCTGCAGCAATGGTACCAATTGTTGAGAGGCCCTCCATCCA 47

RESULT 4
 ASN83043 standard; DNA; 41 BP.

ID ASN83043

DB 44 CCTGAACCTGACCTGGCTGCGCCGTTGCCTA 13

XX ABN83043;
 XX AC
 XX DT 14-AUG-2002 (first entry)
 XX DE Human ankyrin 12 probe 2.
 XX KW
 XX OS Homo sapiens.
 XX PN CN133112B-A.
 XX PD 16-JAN-2002.
 XX PF 26-JUN-2000; 2000CN-00116733.
 XX PR 26-JUN-2000; 2000CN-00116733.
 XX PA (BODE-) BODE GENE DEV CO LTD SHANGHAI.
 XX PI Mao Y, Xie Y;
 XX DR WPI; 2002-305470/35.
 XX PT Polypeptide-human ankyrin 12 and polynucleotide for coding it.
 XX PS Example 6; Page 18; 31pp; Chinese.

The sequence represents a probe used in the invention. The invention relates to the novel human ankyrin 12 polypeptide. The polypeptide is useful for treating diseases such as cancer and HIV infection. The antagonist of the polypeptide and its medical action, and the application of the polynucleotide are also disclosed

XX Sequence 41 BP; 8 A; 12 C; 11 G; 10 T; 0 U; 0 Other;

Query Match Score 18 8; DB 6; Length 41;
 Best Local Similarity 76.7%; Pred. No. 4.1e+04;
 Matches 23; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

Qy 33 CTGGCTGAGTTTGCAAGCCCTGATGCCAC 62
 Db 5 CTGTGTGAGTGAAGCACCCCCCTGTGCACAC 34

OS Synthetic.
 OS Homo sapiens.

RESULT 5
 ADE03377/C
 ID ADE03377 standard; DNA; 36 BP.
 XX AC ADE03377;
 XX DT 29-JUN-2004 (first entry)
 XX DE Human immunoglobulin light chain PCR primer #57.
 XX KW antibody; platelet aggregation inhibition; platelet integrin receptor; GPIIb/IIIa; activated thrombocyte; thrombosis; myocardial infarction; primer; ss; human; PCR.
 XX OS Homo sapiens.
 XX PN EP1300419-A1.
 XX PD 09-APR-2003.
 XX PF 05-OCT-2001; 2001EP-00123651.
 XX PR 05-OCT-2001; 2001EP-00123851.
 XX PA (AFFI-) AFFIMED THERAPEUTICS AG.
 XX Buettnner C, Schwarz M, Knackmuss S, Peter K, Roettgen P;

XX Little M;
 XX WPI; 2003-405595/39.
 XX New antibody, useful for preparing a composition for determining the number of activated thromocytes or for blocking the platelet integrin receptor on thrombocytes for treating e.g., thrombosis or myocardial infarction.

Example 1; SEQ ID NO 107; 80pp; English.

XX The invention comprises a human antibody for inhibiting platelet aggregation by its exclusive binding to the activated state of platelet integrin receptor GPIIb/IIIa. The antibody of the invention is useful for preparing a diagnostic composition for determining the number of activated thrombocytes or for blocking the platelet integrin receptor on thrombocytes. The antibody of the invention is useful for treating thrombosis or myocardial infarction. The present DNA sequence represents a PCR primer that was used in an example of the invention.

XX Sequence 36 BP; 10 A; 12 C; 10 G; 4 T; 0 U; 0 Other;

Query Match Score 18.2; DB 9; Length 36;
 Best Local Similarity 87.0%; Pred. No. 5.9e+03;
 Matches 20; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 46 CAGCCCTCATGCCACAGCTCTG 68
 Db 27 CAACCCGCGCTGTACGGCTCTG 5

RESULT 6
 AAV60897
 ID AAV60897 standard; DNA; 48 BP.
 XX AC AAV60897;
 XX DT 25-JAN-1999 (first entry)
 XX DE Oligonucleotide 910388 for constructing Mab VH region variants.
 XX KW Mutation; mutagenesis; antigen-binding region; monoclonal antibody; catalytic site; serine protease; complementarity determining region; walk-through; ss.
 XX OS Synthetic.
 OS Homo sapiens.

XX US5798208-A.
 XX PD 25-AUG-1998.
 XX PF 02-NOV-1992; 92US-00930600.
 XX PR 05-APR-1990; 90US-00505314.
 XX PA (CREA/) CREA R.
 XX PI Crea R;
 XX DR WPI; 1998-480376/41.

XX Mutagenesis of pre-determined gene sequences - useful for systematic changes of pre-determined amino acids to see their effect on protein activity, and to create gene expression libraries.

Example 1; Col 23; 33pp; English.

XX The invention relates to a method of generating mutations in proteins by synthesising a mixture of oligonucleotides in order to alter the codons for specific amino acids within a defined region of the protein. Using a range of oligonucleotides for the mutations, expression libraries of the mutant protein can be constructed. As an example of the method, the

CC antigen-binding region of the monoclonal antibody (mAb) MCPC603 (which binds phosphocholine) is altered to contain the catalytic triad residues for a serine protease. Specifically the amino acids to be altered are selected from the ABP of the complementarity determining region (CDR) 1 region of the variable heavy chain (Vh) of the antibody, the His of Vh CDR3 and the Ser of the CDR 2 from the light chain variable region (Vl). The mutagenesis is by a "walk-through" method. Oligonucleotides AA760881-V60900 are used to assemble the Vh gene for monoclonal antibody MCPC603 for the construction of variants (see AAV60860-V60880).

SQ Sequence 48 BP; 4 A; 11 C; 9 G; 12 T; 0 U; 12 Other;
 Query Match 13.8%; Score 18.2%; DB 2; Length 48;
 Best Local Similarity 48.9%; Pred. No. 6.3e+04;
 Matches 23; Conservative 8; Mismatches 16; Indels 0; Gaps 0;

Qy 64 TTCTGGCGGTGCTACTCGGGCTGATGGAGCGCTCGGCCCTTG 110
 Db 1 TACTGCGCGTACRIMCITMRCGACASTSGTMTCYCRMCKYTG 47

RESULT 7
 ADD54968 standard; DNA; 48 BP.
 ID ADD54968
 XX AC
 XX DT 15-JAN-2004 (first entry)
 DB Heavy chain variable region variant oligonucleotide #17.
 XX KW ss; mutagenesis; protein mutagenesis; screening.
 XX OS Synthetic.
 PN US2003194807-A1.
 PD 16-OCT-2003.
 PP 20-FEB-2003; 2003US-00371404.

XX PR 02-NOV-1992; 92US-00930600.
 PR 30-MAY-1995; 95US-00453623.
 PA (CREA/) CREA R.
 PI Crea R;
 XX DR WPI; 2003-844460/78.

XX PT Mutagenesis of a protein comprises introducing a predetermined amino acid into each set of selected sequence positions in a predefined region of the protein to produce a protein library comprising mutant proteins.
 XX PS Example 1; Page 12; 44pp; English.
 XX CC The invention relates to a method of mutagenesis of a protein. The methods are useful for generating libraries of mutant proteins that are of a practical size for screening, for studying the role of amino acids in protein structure and function, and for developing new or improved proteins and polypeptides such as enzymes, antibodies their binding fragments or analogues. The present sequence is used in the exemplification of the invention.

SQ Sequence 48 BP; 4 A; 11 C; 9 G; 12 T; 0 U; 12 Other;
 Query Match 13.8%; Score 18.2%; DB 9; Length 48;

Best Local Similarity 48.9%; Pred. No. 6.3e+04;
 Matches 23; Conservative 8; Mismatches 16; Indels 0; Gaps 0;

Qy 64 TTCTGGCGGTGCTACTCGGGCTGATGGAGCGCTCGGCCCTTG 110
 Db 1 TACTGCGCGTACRIMCITMRCGACASTSGTMTCYCRMCKYTG 47

CC antigen-binding region of the monoclonal antibody (mAb) MCPC603 (which binds phosphocholine) is altered to contain the catalytic triad residues for a serine protease. Specifically the amino acids to be altered are selected from the ABP of the complementarity determining region (CDR) 1 region of the variable heavy chain (Vh) of the antibody, the His of Vh CDR3 and the Ser of the CDR 2 from the light chain variable region (Vl). The mutagenesis is by a "walk-through" method. Oligonucleotides AA760881-V60900 are used to assemble the Vh gene for monoclonal antibody MCPC603 for the construction of variants (see AAV60860-V60880).

SQ Sequence 48 BP; 4 A; 11 C; 9 G; 12 T; 0 U; 12 Other;
 Query Match 13.8%; Score 18.2%; DB 2; Length 48;
 Best Local Similarity 48.9%; Pred. No. 6.3e+04;
 Matches 23; Conservative 8; Mismatches 16; Indels 0; Gaps 0;

Qy 64 TTCTGGCGGTGCTACTCGGGCTGATGGAGCGCTCGGCCCTTG 110
 Db 1 TACTGCGCGTACRIMCITMRCGACASTSGTMTCYCRMCKYTG 47

RESULT 8
 AAQ42415/C
 ID AAQ42415 standard; cDNA; 47 BP.
 XX AC AAQ42415;
 XX DT 25-MAR-2003 (revised)
 DT 27-SEP-1993 (first entry)
 XX DE IDUA primer ID47.

XX KW Alpha-L-iduronidase; glycosaminoglycan alpha-L-iduronohydrolase; mucopolysaccharidosis type I; MPS-I; primer; probe; ss.
 OS Synthetic.
 XX PN W09310244-A1.
 XX DR 27-MAY-1993.
 XX PF 12-NOV-1992; 92WO-AU000611.
 XX PR 14-NOV-1991; 91AU-00009490.

XX PA (WOMB-) WOMEN'S & CHILDREN'S HOSPITAL.
 XX PI Scott HS, Anson DS, Orsborn AM, Nelson PV, Clements PR,
 PI Morris CP, Hopwood JJ;
 XX DR WPI; 1993-182558/22.

XX PS Isolated nucleic acid molecule for alpha-L-iduronidase hydrolase deficiency diagnosis - comprises sequence of nucleotide(s) encoding or complementary to mammalian alpha-L-iduronidase hydrolase fragment, for treating lysosomal storage disorder.
 XX PT Example; Page 14; 47BP; English.
 XX CC The IDUA nucleic acid was isolated using oligonucleotides synthesised on the basis of IDUA amino acid sequences. Primer ID47 was based on residues 2 to 7 of peptide 8 (see AAR37425). Primer II13 was based on residues 13 to 7 of the 74/13 kD amino terminal (see AAR37425). (Updated on 25-MAR-2003 to correct PN field.)
 XX SQ Sequence 47 BP; 14 A; 16 C; 11 G; 6 T; 0 U; 0 Other;

Query Match 13.6%; Score 18; DB 2; Length 47;
 Best Local Similarity 64.3%; Pred. No. 7.1e+04;
 Matches 27; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

Qy 61 AGCTTCTCGCGCGCTACTCGGCTGGATGGAGCGCTCG 102
 Db 47 ACCTTGCTGAACTCGCTGCTGGCTGGTCCAGCTCTCG 6

RESULT 9
 ABS56353/C
 ID ABS56353 standard; DNA; 48 BP.
 XX AC ABS56353;
 XX DT 20-JAN-2003 (first entry)
 XX DE PCR primer, TPOVHP6, used to construct an MPL binding sequence of TPO.

XX KW Agonist; immunoglobulin; Ig; variable domain; heavy chain; light chain; complementarity determining region; CDR; antigenic; thrombopoietin; TPO; thrombopoietin receptor; MPL; cytotoxic T-lymphocyte; CTL; epitope; T-helper cell; synobody; pharmaceutical; vaccine; proliferation; growth; differentiation; haematopoietic cell; antibody; platelet progenitor cell; immune disorder; thrombocytopenia; primer;

KW disseminated intravascular coagulation; stem cell; transplantation;
 KW gene therapy; diagnostic; haemostatic; immunomodulator; anticoagulant;
 KW consensus variable heavy chain domain; CONVH; PCR; ss; PCR knitting.
 XX Synthetic.
 OS XX
 PN WO200278612-A2.
 XX PD 10-OCT-2002.
 XX PP 02-APR-2002; 2002WO-US010301.
 XX PR 02-APR-2001; 2001US-0281183P.
 XX PA (PURD) PURDUE PHARMA LP.
 XX PI Soltis DA, Burch RM, Ogert RA;
 XX DR WPI; 2003-040615/03.
 XX PT New thrombopoietin synthobodies, useful for stimulating proliferation,
 PT growth, or differentiation of hematopoietic cells, for treating or
 PT preventing hematopoietic or immune disorders, e.g. thrombocytopenia.
 XX PS Example 1; Page 72; 97pp; English.
 XX The invention discloses a variant of an immunoglobulin (Ig) variable
 CC heavy or light chain domain that comprises at least one complementarity
 CC determining region (CDR) and framework regions flanking the CDR. The CDR
 CC also has added or substituted to it, at least one binding sequence which
 CC is heterologous to the CDR and is an antigenic, agonistic sequence from a
 CC thrombopoietin (Tpo) receptor (MPL) binding sequence. The antigenic
 CC sequence can be a binding sequence heterologous to the CDR, a cytotoxic T
 CC -lymphocyte (CTL)-epitope sequence, a T-helper cell sequence, a B-helper
 CC cell sequence or a combination of each. The variant or thrombopoietin
 CC synthobody, pharmaceutical and vaccine compositions are useful for
 CC stimulating proliferation, growth or differentiation of haematopoietic
 CC cells, particularly platelet progenitor cells. The variants are also
 CC useful for treating or preventing haematopoietic or immune disorders
 CC resulting from chemotherapy, radiation therapy, or bone marrow
 CC transfusions (e.g. thrombocytopenia or disseminated intravascular
 CC coagulation). Compositions comprising the synthobodies can be used for
 CC the mobilisation, amplification and ex vivo expansion of stem cells and
 CC committed precursor cells for autologous and allogeneic transplantation
 CC as well as for the expansion of stem cells for gene therapy. They are
 CC also useful as diagnostic or analytical reagents for studying the
 CC function of thrombopoietin and its receptor in vivo or in vitro. The
 CC sequence presented is the PCR primer, TPOVP6, which was used to
 CC construct a variable heavy chain region gene containing the MPL binding
 XX sequence of TPO using the PCR knitting technique.

SQ Sequence 48 BP; 10 A; 14 C; 15 G; 9 T; 0 U; 0 Other;

Query Match 12.6%; Score 18; DB 7; Length 48;
 Best Local Similarity 64.3%; Pred. No. 7.2e+04;
 Matches 27; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

Qy 71 CGGCTGGCTACTCGGGCTGGATGGAGGCGCCTGCCTGTCTGCTACCTG 112
 Db 48 CTGTTACTACTGCGTAGATGGGGCCACCTGAGAC 7

SQ Sequence 48 BP; 11 A; 12 C; 9 G; 18 T; 0 U; 0 Other;

Query Match 13.6%; Score 18; DB 6; Length 50;

Best Local Similarity 70.6%; Pred. No. 7.2e+04;

Matches 24; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

Qy 51 CTGCACTGACAGCTTCTGGGGCTTGCTACTCG 84
 Db 10 CTGTCGAACTGTTCTGACTGCTGATGG 43

SQ Sequence 50 BP; 11 A; 12 C; 9 G; 18 T; 0 U; 0 Other;

Query Match 13.6%; Score 18; DB 6; Length 50;

Best Local Similarity 70.6%; Pred. No. 7.2e+04;

Matches 24; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

Qy 51 CTGCACTGACAGCTTCTGGGGCTTGCTACTCG 84
 Db 10 CTGTCGAACTGTTCTGACTGCTGATGG 43

SQ Sequence 50 BP; 11 A; 12 C; 9 G; 18 T; 0 U; 0 Other;

Query Match 13.6%; Score 18; DB 6; Length 50;

Best Local Similarity 70.6%; Pred. No. 7.2e+04;

Matches 24; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

Qy 51 CTGCACTGACAGCTTCTGGGGCTTGCTACTCG 84
 Db 10 CTGTCGAACTGTTCTGACTGCTGATGG 43

SQ Sequence 50 BP; 11 A; 12 C; 9 G; 18 T; 0 U; 0 Other;

Query Match 13.6%; Score 18; DB 6; Length 50;

Best Local Similarity 70.6%; Pred. No. 7.2e+04;

Matches 24; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

Qy 51 CTGCACTGACAGCTTCTGGGGCTTGCTACTCG 84
 Db 10 CTGTCGAACTGTTCTGACTGCTGATGG 43

SQ Sequence 50 BP; 11 A; 12 C; 9 G; 18 T; 0 U; 0 Other;

Query Match 13.6%; Score 18; DB 6; Length 50;

Best Local Similarity 70.6%; Pred. No. 7.2e+04;

Matches 24; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

Qy 51 CTGCACTGACAGCTTCTGGGGCTTGCTACTCG 84
 Db 10 CTGTCGAACTGTTCTGACTGCTGATGG 43

SQ Sequence 50 BP; 11 A; 12 C; 9 G; 18 T; 0 U; 0 Other;

Query Match 13.6%; Score 18; DB 6; Length 50;

Best Local Similarity 70.6%; Pred. No. 7.2e+04;

Matches 24; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

Qy 51 CTGCACTGACAGCTTCTGGGGCTTGCTACTCG 84
 Db 10 CTGTCGAACTGTTCTGACTGCTGATGG 43

SQ Sequence 50 BP; 11 A; 12 C; 9 G; 18 T; 0 U; 0 Other;

Query Match 13.6%; Score 18; DB 6; Length 50;

Best Local Similarity 70.6%; Pred. No. 7.2e+04;

Matches 24; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

Qy 51 CTGCACTGACAGCTTCTGGGGCTTGCTACTCG 84
 Db 10 CTGTCGAACTGTTCTGACTGCTGATGG 43

SQ Sequence 50 BP; 11 A; 12 C; 9 G; 18 T; 0 U; 0 Other;

Query Match 13.6%; Score 18; DB 6; Length 50;

Best Local Similarity 70.6%; Pred. No. 7.2e+04;

Matches 24; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

Qy 51 CTGCACTGACAGCTTCTGGGGCTTGCTACTCG 84
 Db 10 CTGTCGAACTGTTCTGACTGCTGATGG 43

SQ Sequence 50 BP; 11 A; 12 C; 9 G; 18 T; 0 U; 0 Other;

Query Match 13.6%; Score 18; DB 6; Length 50;

Best Local Similarity 70.6%; Pred. No. 7.2e+04;

Matches 24; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

Qy 51 CTGCACTGACAGCTTCTGGGGCTTGCTACTCG 84
 Db 10 CTGTCGAACTGTTCTGACTGCTGATGG 43

SQ Sequence 50 BP; 11 A; 12 C; 9 G; 18 T; 0 U; 0 Other;

Query Match 13.6%; Score 18; DB 6; Length 50;

Best Local Similarity 70.6%; Pred. No. 7.2e+04;

Matches 24; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

Qy 51 CTGCACTGACAGCTTCTGGGGCTTGCTACTCG 84
 Db 10 CTGTCGAACTGTTCTGACTGCTGATGG 43

SQ Sequence 50 BP; 11 A; 12 C; 9 G; 18 T; 0 U; 0 Other;

Query Match 13.6%; Score 18; DB 6; Length 50;

Best Local Similarity 70.6%; Pred. No. 7.2e+04;

Matches 24; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

Qy 51 CTGCACTGACAGCTTCTGGGGCTTGCTACTCG 84
 Db 10 CTGTCGAACTGTTCTGACTGCTGATGG 43

SQ Sequence 50 BP; 11 A; 12 C; 9 G; 18 T; 0 U; 0 Other;

Query Match 13.6%; Score 18; DB 6; Length 50;

Best Local Similarity 70.6%; Pred. No. 7.2e+04;

Matches 24; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

Qy 51 CTGCACTGACAGCTTCTGGGGCTTGCTACTCG 84
 Db 10 CTGTCGAACTGTTCTGACTGCTGATGG 43

SQ Sequence 50 BP; 11 A; 12 C; 9 G; 18 T; 0 U; 0 Other;

Query Match 13.6%; Score 18; DB 6; Length 50;

Best Local Similarity 70.6%; Pred. No. 7.2e+04;

Matches 24; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

Qy 51 CTGCACTGACAGCTTCTGGGGCTTGCTACTCG 84
 Db 10 CTGTCGAACTGTTCTGACTGCTGATGG 43

SQ Sequence 50 BP; 11 A; 12 C; 9 G; 18 T; 0 U; 0 Other;

Query Match 13.6%; Score 18; DB 6; Length 50;

Best Local Similarity 70.6%; Pred. No. 7.2e+04;

Matches 24; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

Qy 51 CTGCACTGACAGCTTCTGGGGCTTGCTACTCG 84
 Db 10 CTGTCGAACTGTTCTGACTGCTGATGG 43

SQ Sequence 50 BP; 11 A; 12 C; 9 G; 18 T; 0 U; 0 Other;

Query Match 13.6%; Score 18; DB 6; Length 50;

Best Local Similarity 70.6%; Pred. No. 7.2e+04;

Matches 24; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

Qy 51 CTGCACTGACAGCTTCTGGGGCTTGCTACTCG 84
 Db 10 CTGTCGAACTGTTCTGACTGCTGATGG 43

SQ Sequence 50 BP; 11 A; 12 C; 9 G; 18 T; 0 U; 0 Other;

Query Match 13.6%; Score 18; DB 6; Length 50;

Best Local Similarity 70.6%; Pred. No. 7.2e+04;

Matches 24; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

Qy 51 CTGCACTGACAGCTTCTGGGGCTTGCTACTCG 84
 Db 10 CTGTCGAACTGTTCTGACTGCTGATGG 43

SQ Sequence 50 BP; 11 A; 12 C; 9 G; 18 T; 0 U; 0 Other;

Query Match 13.6%; Score 18; DB 6; Length 50;

Best Local Similarity 70.6%; Pred. No. 7.2e+04;

Matches 24; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

Qy 51 CTGCACTGACAGCTTCTGGGGCTTGCTACTCG 84
 Db 10 CTGTCGAACTGTTCTGACTGCTGATGG 43

SQ Sequence 50 BP; 11 A; 12 C; 9 G; 18 T; 0 U; 0 Other;

Query Match 13.6%; Score 18; DB 6; Length 50;

Best Local Similarity 70.6%; Pred. No. 7.2e+04;

Matches 24; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

Qy 51 CTGCACTGACAGCTTCTGGGGCTTGCTACTCG 84
 Db 10 CTGTCGAACTGTTCTGACTGCTGATGG 43

SQ Sequence 50 BP; 11 A; 12 C; 9 G; 18 T; 0 U; 0 Other;

Query Match 13.6%; Score 18; DB 6; Length 50;

Best Local Similarity 70.6%; Pred. No. 7.2e+04;

Matches 24; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

Qy 51 CTGCACTGACAGCTTCTGGGGCTTGCTACTCG 84
 Db 10 CTGTCGAACTGTTCTGACTGCTGATGG 43

SQ Sequence 50 BP; 11 A; 12 C; 9 G; 18 T; 0 U; 0 Other;

Query Match 13.6%; Score 18; DB 6; Length 50;

Best Local Similarity 70.6%; Pred. No. 7.2e+04;

Matches 24; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

Qy 51 CTGCACTGACAGCTTCTGGGGCTTGCTACTCG 84
 Db 10 CTGTCGAACTGTTCTGACTGCTGATGG 43

SQ Sequence 50 BP; 11 A; 12 C; 9 G; 18 T; 0 U; 0 Other;

Query Match 13.6%; Score 18; DB 6; Length 50;

Best Local Similarity 70.6%; Pred. No. 7.2e+04;

Matches 24; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

Qy 51 CTGCACTGACAGCTTCTGGGGCTTGCTACTCG 84
 Db 10 CTGTCGAACTGTTCTGACTGCTGATGG 43

SQ Sequence 50 BP; 11 A; 12 C; 9 G; 18 T; 0 U; 0 Other;

Query Match 13.6%; Score 18; DB 6; Length 50;

Best Local Similarity 70.6%; Pred. No. 7.2e+04;

Matches 24; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

Qy 51 CTGCACTGACAGCTTCTGGGGCTTGCTACTCG 84
 Db 10 CTGTCGAACTGTTCTGACTGCTGATGG 43

SQ Sequence 50 BP; 11 A; 12 C; 9 G; 18 T; 0 U; 0 Other;

Query Match 13.6%; Score 18; DB 6; Length 50;

Best Local Similarity 70.6%; Pred. No. 7.2e+04;

Matches 24; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

Qy 51 CTGCACTGACAGCTTCTGGGGCTTGCTACTCG 84
 Db 10 CTGTCGAACTGTTCTGACTGCTGATGG 43

SQ Sequence 50 BP; 11 A; 12 C; 9 G; 18 T; 0 U; 0 Other;

Query Match 13.6%; Score 18; DB 6; Length 50;

Best Local Similarity 70.6%; Pred. No. 7.2e+04;

Matches 24; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

Qy 51 CTGCACTGACAGCTTCTGGGGCTTGCTACTCG 84
 Db 10 CTGTCGAACTGTTCTGACTGCTGATGG 43

SQ Sequence 50 BP; 11 A; 12 C; 9 G; 18 T; 0 U; 0 Other;

Query Match 13.6%; Score 18; DB 6; Length 50;

Best Local Similarity 70.6%; Pred. No. 7.2e+04;

Matches 24; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

Qy 51 CTGCACTGACAGCTTCTGGGGCTTGCTACTCG 84
 Db 10 CTGTCGAACTGTTCTGACTGCTGATGG 43

SQ Sequence 50 BP; 11 A; 12 C; 9 G; 18 T; 0 U; 0 Other;

Query Match 13.6%; Score 18; DB 6; Length 50;

Best Local Similarity 70.6%; Pred. No. 7.2e+04;

Matches 24; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

Qy 51 CTGCACTGACAGCTTCTGGGGCTTGCTACTCG 84
 Db 10 CTGTCGAACTGTTCTGACTGCTGATGG 43

SQ Sequence 50 BP; 11 A; 12 C; 9 G; 18 T; 0 U; 0 Other;

Query Match 13.6%; Score 18; DB 6; Length 50;

Best Local Similarity 70.6%; Pred. No. 7.2e+04;

Matches 24; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

Qy 51 CTGCACTGACAGCTTCTGGGGCTTGCTACTCG 84
 Db 10 CTGTCGAACTGTTCTGACTGCTGATGG 43

SQ Sequence 50 BP; 11 A; 12 C; 9 G; 18 T; 0 U; 0 Other;

Query Match 13.6%; Score 18; DB 6; Length 50;

Best Local Similarity 70.6%; Pred. No. 7.2e+04;

Matches 24; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

Qy 51 CTGCACTGACAGCTTCTGGGGCTTGCTACTCG 84
 Db 10 CTGTCGAACTGTTCTGACTGCTGATGG 43

SQ Sequence 50 BP; 11 A; 12 C; 9 G; 18 T; 0 U; 0 Other;

Query Match 13.6%; Score 18; DB 6; Length 50;

Best Local Similarity 70.6%; Pred. No. 7.2e+04;

Matches 24; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

Qy 51 CTGCACTGACAGCTTCTGGGGCTTGCTACTCG 84
 Db 10 CTGTCGAACTGTTCTGACTGCTGATGG 43

SQ Sequence 50 BP; 11 A; 12 C; 9 G; 18 T; 0 U; 0 Other;

Query Match 13.6%; Score 18; DB 6; Length 50;

Best Local Similarity 70.6%; Pred. No. 7.2e+04;

Matches 24; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

Qy 51 CTGCACTGACAGCTTCTGGGGCTTGCTACTCG 84
 Db 10 CTGTCGAACTGTTCTGACTGCTGATGG 43

SQ Sequence 50 BP; 11 A; 12 C; 9 G; 18 T; 0 U; 0 Other;

Query Match 13.6%; Score 18; DB 6; Length 50;

Best Local Similarity 70.6%; Pred. No. 7.2e+04;

Matches 24; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

Qy 51 CTGCACTGACAGCTTCTGGGGCTTGCTACTCG 84
 Db 10 CTGTCGAACTGTTCTGACTGCTGATGG 43

SQ Sequence 50 BP; 11 A; 12 C; 9 G; 18 T; 0 U; 0 Other;

Query Match 13.6%; Score 18; DB 6; Length 50;

Best Local Similarity 70.6%; Pred. No. 7.2e+04;

Matches 24; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

WO200147944-A2.

PR 15-OCT-1996; 96JP-00272422.

PD XX PA

XX (TAKE) TAKEDA CHEM IND LTD.

XX PD 05-JUL-2001.

XX PI 28-DEC-2000; 2000W0-US035498.

XX PR 28-DEC-1999; 99US-01734199.

XX PR 27-DEC-2000; 2000US-00173419.

PA (CURA-) CURAGEN CORP..

XX PI Shinketsu RA, Leach M;

XX DR WPI; 2001-465210/50.

XX Polymorphic nucleic acids encoding e.g. amylases, cyclins, polymerases, oncogenes and histones, useful for diagnosing and treating, e.g. cancer, autoimmune diseases and infections.

PS Claim 1; Page 2821; 413pp; English.

XX The present invention relates to oligonucleotides encoding polymorphic variants of proteins related to amylases, amyloid proteins, angiopoietin, apoptosis related proteins, cadherin, cyclin, polymerase, oncogenes, histones, kinases, colony stimulating factors, complement proteins, cytochromes, kinesins, cytokines, interferons, interleukins, G-protein coupled receptors and thioesterases. The present sequence is one such oligonucleotide. The oligonucleotides and the peptides encoded by them may be used in the prevention, diagnosis and treatment of diseases associated with inappropriate expression of the proteins listed above. Disorders that may be prevented, diagnosed and/or treated include multifactorial diseases (e.g. rheumatoid arthritis, multiple sclerosis, diabetes, systemic lupus erythematosus and Grave's disease), inflammation, cancer (e.g. cancers of the bladder, brain, breast, colon and kidney, leukaemia), diseases of the nervous system and an infection of pathogenic organisms

XX Sequence 50 BP; 15 A; 13 C; 14 G; 8 T; 0 U; 0 Other;

XX Query Match Score 17.8; DB 4; Length 50;
XX Best Local Similarity 62.2%; Pred. No. 8.2e+04;
XX Matches 28; Conservative 0; Mismatches 17; Indels 0; Gaps 0;
XX AC AAV02046;
XX DT 26-JUN-1998 (first entry)

Qy 63 GTTCGGCGGGCTTGCTACTCGGGCTGGATGGGCGCTGGCTCCCT 107
Db 48 GCTCAGGAGCTAGATTCACTGTGCTAGTGTGGCTTCGGCT 4

XX RESULT 12
XX AAV02057 standard; cDNA; 42 BP.
XX AC AAV02057;
XX DT 26-JUN-1998 (first entry)
XX DE Mutated hcs peptide coding sequence.
XX KW Corticotstatin; somatostatin; hcs-17 peptide; hormone-producing tumour;
KW gastric ulcer; dementia; growth disorder; hormone secretion regulation;
KW digestive system regulation; neural inhibitor; therapy; ds.
XX OS Synthetic.
XX PN WO9746668-A1.
XX PD 11-DEC-1997.
XX DE Mutated hcs peptide coding sequence.
XX KW Corticotstatin; somatostatin; hcs-17 peptide; hormone-producing tumour;
KW gastric ulcer; dementia; growth disorder; hormone secretion regulation;
KW digestive system regulation; neural inhibitor; therapy; ds.
XX OS Synthetic.
XX PN WO9746668-A1.
XX PD 11-DEC-1997.
XX DE Mutated hcs peptide coding sequence.
XX KW Corticotstatin; somatostatin; hcs-17 peptide; hormone-producing tumour;
KW gastric ulcer; dementia; growth disorder; hormone secretion regulation;
KW digestive system regulation; neural inhibitor; therapy; ds.
XX OS Synthetic.
XX PN WO9746668-A1.
XX PD 11-DEC-1997.
XX DE Mutated hcs peptide coding sequence.
XX KW Corticotstatin; somatostatin; hcs-17 peptide; hormone-producing tumour;
KW gastric ulcer; dementia; growth disorder; hormone secretion regulation;
KW digestive system regulation; neural inhibitor; therapy; ds.
XX OS Synthetic.

XX PR 05-JUN-1997; 97W0-JP001911.
XX PR 05-JUN-1997; 97W0-JP001911.
XX PR 07-JUN-1996; 96JP-00146052.
XX PR 19-SEP-1996; 96JP-0024710.
XX PR 15-OCT-1996; 96JP-0024710.
XX PR 19-SEP-1996; 96JP-0024710.
XX PR 19-SEP-1996; 96JP-0024710.

XX PA (TAKE) TAKEDA CHEM IND LTD.

XX PI Hinuma S, Fukusumi S, Kitada C;

XX DR WPI; 1998-042177/04.

XX DR P-PSDB; AAW44032.

XX Peptide having corticotstatin or somatostatin or activity - useful as anticancer and antiulcer agent, and for control of dementia and growth abnormalities.
XX PS Claim 14; Page 138; 174pp; Japanese.
XX This sequence encodes a mutated hcs peptide, which is a peptide of the invention, and has corticotstatin or somatostatin activity. Antibodies recognising hcs-17 can be used to screen for a compound that modulates, i.e. an agonist or antagonist, the binding of hcs-17 to its receptor, and to assay for hcs-17, e.g. diagnosis, hcs-17, the DNA encoding it or a receptor agonist or antagonist can be used to treat and prevent hormone-producing tumours (e.g. tumours producing gastrin or insulin), gastric ulcers and dementia, regulate sleep and control growth disorders (e.g. acromegaly, gigantism and dwarfism). They can also be used to regulate hormone secretion and the digestive system (e.g. to treat diabetes), and as tumour multiplication or neural inhibitors.
XX Sequence 42 BP; 7 A; 15 C; 8 G; 12 T; 0 U; 0 Other;
XX Query Match Score 17.6; DB 2; Length 42;
XX Best Local Similarity 65.0%; Pred. No. 9.1e+04;
XX Matches 26; Conservative 0; Mismatches 14; Indels 0; Gaps 0;
XX Qy 48 GGCCTCATGGACACCTTCGGCTGGCTACTGGGC 87
Db 3 GCCCTCAGGAACTCTTCCTGAAGACCTCTCCCTCTGC 42

RESULT 13

AAV02046
ID AAV02046 standard; cDNA; 45 BP.
XX AC AAV02046;
XX DT 26-JUN-1998 (first entry)

XX HCS-15 peptide coding sequence.
XX Corticotstatin; somatostatin; hcs-15 peptide; hormone-producing tumour;
KW gastric ulcer; dementia; growth disorder; hormone secretion regulation;
KW digestive system regulation; neural inhibitor; therapy; ds.
XX OS Synthetic.
XX PN WO9746668-A1.

XX PD 11-DEC-1997.

XX DE Mutated hcs peptide coding sequence.

XX KW Corticotstatin; somatostatin; hcs-17 peptide; hormone-producing tumour;
KW gastric ulcer; dementia; growth disorder; hormone secretion regulation;
KW digestive system regulation; neural inhibitor; therapy; ds.
XX OS Synthetic.
XX PN WO9746668-A1.

XX PD 11-DEC-1997.

XX DE Mutated hcs peptide coding sequence.

XX KW Corticotstatin; somatostatin; hcs-17 peptide; hormone-producing tumour;
KW gastric ulcer; dementia; growth disorder; hormone secretion regulation;
KW digestive system regulation; neural inhibitor; therapy; ds.
XX OS Synthetic.
XX PN WO9746668-A1.

XX PD 11-DEC-1997.

XX DE Mutated hcs peptide coding sequence.

XX KW Corticotstatin; somatostatin; hcs-17 peptide; hormone-producing tumour;
KW gastric ulcer; dementia; growth disorder; hormone secretion regulation;
KW digestive system regulation; neural inhibitor; therapy; ds.
XX OS Synthetic.

CC organisms
XX Sequence 50 BP; 12 A; 9 C; 14 G; 15 T; 0 U; 0 Other;
SQ Score 17.6; DB 4; Length 50;
Query Match 13.3%; Best Local Similarity 65.0%; Pred. No. 9.4e+04;
Matches 26; Conservative 0; Mismatches 14; Indels 0; Gaps 0;
Best Local Similarity 65.0%; Pred. No. 9.4e+04;
Matches 26; Conservative 0; Mismatches 14; Indels 0; Gaps 0;
QY 30 CGACTCGTGAAGTTGAGCCCTGCATGCCACACGTTCTGC 69
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 6 CAACTGTGAGTGATAAGCTGCTGCACCTGTTGC 45

Search completed: May 26, 2004, 05:53:46
Job time : 114.477 sec

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: May 26, 2004, 05:16:49 ; Search time 25.4982 Seconds
(without alignment)
2872.886 Million cell updates/sec

Title: US-10-048-046-1_COPY_997_1128

Perfect score: 132

Sequence: 1 acatggatccatctgcaggaa.....ctacatggcgctgtccctg 132

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 839752

Minimum DB seq length: 0
Maximum DB seq length: 50

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents N/A:
 1: /cg92_6_ptodata/2/ina/5A_COMB.seq;*
 2: /cg92_6_ptodata/2/ina/5B_COMB.seq;*
 3: /cg92_6_ptodata/2/ina/6A_COMB.seq;*
 4: /cg92_6_ptodata/2/ina/6B_COMB.seq;*
 5: /cg92_6_ptodata/2/ina/FCNTUS_COMB.seq;*
 6: /cg92_6_ptodata/2/ina/backfiles.seq;*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	20.2	15.3	47	4 US-09-422-978-2729	Sequence 2729, Ad
C 2	19.2	14.5	47	1 US-08-236-311-18	Sequence 18, App1
C 3	19.2	14.5	47	3 US-08-457-918-18	Sequence 18, App1
C 4	19	14.4	47	1 US-08-236-311-15	Sequence 15, App1
C 5	19	14.4	47	3 US-08-457-918-15	Sequence 15, App1
C 6	18.2	13.8	48	2 US-08-452-724A-20	Sequence 20, App1
C 7	18.2	13.8	48	4 US-08-453-623-20	Sequence 20, App1
C 8	18	13.6	45	2 US-08-602-716A-8	Sequence 8, App1
C 9	18	13.6	47	3 US-09-191-171-1	Sequence 1, App1
C 10	18	13.6	47	3 US-09-385-707-1	Sequence 1, App1
C 11	18	13	47	4 US-09-639-696C-1	Sequence 1, App1
C 12	17.4	13.2	32	4 US-09-581-105-9	Sequence 9, App1
C 13	17.4	13.2	40	6 5240847-33	Patent No. 5240847
C 14	17.2	13.0	46	5 PCT-US95-13975-35	Sequence 35, App1
C 15	17.2	13.0	46	6 5196308-1	Patent No. 5196308
C 16	17	12.9	36	1 US-08-425-299A-5	Sequence 5, App1
C 17	17	12.9	36	3 US-08-895-601-15	Sequence 15, App1
C 18	17	12.9	36	3 US-08-767-942A-28	Sequence 28, App1
C 19	17	12.9	47	4 US-09-422-978-735	Sequence 735, App1
C 20	17	12.9	48	1 US-08-171-389-228	Sequence 228, App1
C 21	17	12.9	48	1 US-08-391-001-11	Sequence 11, App1
C 22	17	12.9	48	1 US-08-123-936-228	Sequence 228, App1
C 23	17	12.9	48	2 US-08-741-931-11	Sequence 11, App1
C 24	17	12.9	48	2 US-08-475-228A-228	Sequence 228, App1
C 25	17	12.9	48	3 US-08-482-808A-228	Sequence 228, App1
C 26	17	12.9	48	4 US-09-354-947-228	Sequence 228, App1
C 27	17	12.9	48	5 FCT-US93-12388-228	Sequence 228, App1

ALIGNMENTS

RESULT 1
US-09-422-978-2729
; Sequence 2729, Application US/09422978
; Patent No. 6547751
; GENERAL INFORMATION:
; APPLICANT: Cohen, Daniel
; ATTORNEY: Blumenthal, Maria
; TITLE OF INVENTION: Biallelic markers for use in constructing a high density...
; FILE REFERENCE: GENSET_020CP1
; CURRENT APPLICATION NUMBER: US/09/422,978
; CURRENT FILING DATE: 1999-10-20
; EARLIER APPLICATION NUMBER: US 09/298,850
; EARLIER FILING DATE: 1999-04-21
; EARLIER APPLICATION NUMBER: US 60/109,732
; EARLIER FILING DATE: 1998-11-23
; EARLIER APPLICATION NUMBER: US 60/082,614
; EARLIER FILING DATE: 1998-04-21
; NUMBER OF SEQ ID NOS: 11796
; SEQ ID NO: 2729
; LENGTH: 47
; TYPE: DNA
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: allele
; LOCATION: 24
; OTHER INFORMATION: 99-16284-389 : polymorphic base T or C
US-09-422-978-2729

Query Match 15.3%; Score 20.2; DB 4; Length 47;
Best Local Similarity 65.1%; Pred. No. 2.3e-03;
Matches 28; Conservative 1; Mismatches 14; Indels 0; Gaps 0;

Qy 17 AGGACCTGCTGAGCTGCTGGTGAAGCTGCATGCA 59
Db 5 AGCTCTGCGAGGAGATGGACCTGAAAGCTCCATCCA 47

RESULT 2
US-08-236-311-18/c
; Sequence 18, Application US/08236311
; Patent No. 5565335
; GENERAL INFORMATION:
; APPLICANT: Capon, Daniel J.
; TITLE OF INVENTION: Adhesion Variants
; NUMBER OF SEQUENCES: 25
; CORRESPONDENCE ADDRESS:
ADDRESSEE: Genentech, Inc.
STREET: 460 Point San Bruno Blvd

CITY: South San Francisco
 STATE: California
 COUNTRY: USA
 ZIP: 94080
 COMPUTER READABLE FORM:
 MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patin (Genentech)
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/2336,311
 FILING DATE: 02-MAY-1994
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 07/936190
 FILING DATE: 26-AUG-1992
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 07/842777
 FILING DATE: 18-FEB-1992
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 07/250785
 FILING DATE: 28-SEP-1988
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 07/104329
 FILING DATE: 02-OCT-1987
 ATTORNEY/AGENT INFORMATION:
 NAME: Kubinec, Jeffrey S.
 REGISTRATION NUMBER: 36,575
 REFERENCE/DOCKET NUMBER: P0444P1C3
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 415/225-8228
 FAX: 415/952-3881
 TELEX: 910/371-7168
 INFORMATION FOR SEQ ID NO: 18:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 47 bases
 STRANDEDNESS: single
 TYPE: nucleic acid
 TOPOLogy: linear
 US-08-236-311-18

Query Match Score 19.2; DB 1; Length 47;
 Best Local Similarity 67.5%; Pred. No. 4.5e-03;
 Matches 27; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

RESULT 3
 US-08-457-918-18/C
 / Sequence 18, Application US/08457918
 GENERAL INFORMATION:
 PATENT NO. 6117655
 APPLICANT: Genentech, Inc.
 STREET: 460 Point San Bruno Blvd
 CITY: South San Francisco
 STATE: California
 COUNTRY: USA
 ZIP: 94080
 COMPUTER READABLE FORM:
 MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patin (Genentech)
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/236,311
 FILING DATE: 02-MAY-1994
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 07/936190
 FILING DATE: 26-AUG-1992
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 07/842777
 FILING DATE: 18-FEB-1992

Query Match Score 14.5%; DB 3; Length 47;
 Best Local Similarity 67.5%; Pred. No. 4.5e+03;
 Matches 27; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

RESULT 4
 US-08-236-311-15
 / Sequence 15, Application US/08236311
 GENERAL INFORMATION:
 PATENT NO. 5563335
 APPLICANT: Capon, Daniel J.
 TITLE OF INVENTION: Adhesion Variants
 NUMBER OF SEQUENCES: 25
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Genentech, Inc.
 STREET: 460 Point San Bruno Blvd
 CITY: South San Francisco
 STATE: California
 COUNTRY: USA
 ZIP: 94080
 COMPUTER READABLE FORM:
 MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patin (Genentech)
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/236,311
 FILING DATE: 02-MAY-1994
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 07/936190
 FILING DATE: 26-AUG-1992
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 07/842777
 FILING DATE: 18-FEB-1992

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 07/250785
 FILING DATE: 28-SEP-1988
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 07/104329
 FILING DATE: 02-OCT-1987
 ATTORNEY/AGENT INFORMATION:
 NAME: Hasak, Janet E.
 REGISTRATION NUMBER: 28, 61, 6
 REFERENCE/DOCKET NUMBER: 444P1C2
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 415/952-9881
 TELEX: 910/371-7168
 FAX: 415/952-9881
 SEQUENCE CHARACTERISTICS:
 LENGTH: 47 bases
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 US-08-457-918-15

Query Match 14.4%; Score 19; DB 1; Length 47;
 Best Local Similarity 71.4%; Pred. No. 5.2e+03;
 Matches 25; Conservative 0; Mismatches 10;
 Indels 0; Gaps 0;

RESULT 5
 US-08-457-918-15
 / Sequence 15, Application US/08457918
 / PATENT NO. 611765
 / GENERAL INFORMATION:
 / APPLICANT: Capon, Daniel J.
 / TITLE OF INVENTION: Adheson Variants
 / NUMBER OF SEQUENCES: 25
 / CORRESPONDENCE ADDRESS:
 / ADDRESSEE: Genentech, Inc.
 / STREET: 460 Point San Bruno Blvd
 / CITY: South San Francisco
 / STATE: California
 / COUNTRY: USA
 / ZIP: 94080
 / COMPUTER READABLE FORM:
 / MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk
 / COMPUTER: IBM PC compatible
 / OPERATING SYSTEM: PC-DOS/MS-DOS
 / SOFTWARE: patin (Genentech)
 / CURRENT APPLICATION DATA:
 / APPLICATION NUMBER: 08/226311
 / FILING DATE: 02-MAY-1994
 / PRIOR APPLICATION DATA:
 / APPLICATION NUMBER: US/08/457,918
 / FILING DATE: 1-JUN-1995
 / CLASSIFICATION: 435
 / PRIOR APPLICATION DATA:
 / APPLICATION NUMBER: 07/842,777
 / FILING DATE: 18-FEB-1992
 / PRIOR APPLICATION DATA:
 / APPLICATION NUMBER: 07/936,190
 / FILING DATE: 26-AUG-1992
 / PRIOR APPLICATION DATA:
 / APPLICATION NUMBER: 07/104329
 / FILING DATE: 02-OCT-1987
 / ATTORNEY/AGENT INFORMATION:
 / NAME: Kubinec, Jeffrey S.

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 36, 575
 REFERENCE/DOCKET NUMBER: P0444P1C3
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 415/223-8228
 TELEX: 415/952-9881
 INFORMATION FOR SEQ ID NO: 15:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 47 bases
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 US-08-457-918-15

Query Match 14.4%; Score 19; DB 3; Length 47;
 Best Local Similarity 71.4%; Pred. No. 5.2e+03;
 Matches 25; Conservative 0; Mismatches 10;
 Indels 0; Gaps 0;

RESULT 6
 US-08-452-724A-20
 / Sequence 20, Application US/08452724A
 / PATENT NO. 5830650
 / GENERAL INFORMATION:
 / APPLICANT: Crea, Roberto
 / TITLE OF INVENTION: Walk-Through Mutagenesis
 / NUMBER OF SEQUENCES: 59
 / CORRESPONDENCE ADDRESS:
 / ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.
 / STREET: 2 Millita Drive
 / CITY: Lexington
 / STATE: MA
 / COUNTRY: USA
 / ZIP: 02173
 / COMPUTER READABLE FORM:
 / MEDIUM TYPE: Floppy disk
 / COMPUTER: IBM PC compatible
 / OPERATING SYSTEM: PC-DOS/MS-DOS
 / SOFTWARE: Patentin Release #1.0, Version #1.30
 / CURRENT APPLICATION DATA:
 / APPLICATION NUMBER: US/08/452,724A
 / FILING DATE:
 / CLASSIFICATION: 435
 / PRIOR APPLICATION DATA:
 / APPLICATION NUMBER: US 07/930,600
 / FILING DATE: 05-APR-1991
 / PRIOR APPLICATION DATA:
 / APPLICATION NUMBER: PCT/US91/02362
 / FILING DATE: 05-APR-1991
 / PRIOR APPLICATION DATA:
 / APPLICATION NUMBER: US 07/505,314
 / FILING DATE: 05-APR-1990
 / ATTORNEY/AGENT INFORMATION:
 / NAME: Brook Esq., David E.
 / REGISTRATION NUMBER: 22, 532
 / REFERENCE/DOCKET NUMBER: RCG90-01AZ
 / TELECOMMUNICATION INFORMATION:
 / TELEPHONE: (617) 861-6240
 / TELEFAX: (617) 861-3540
 / INFORMATION FOR SEQ ID NO: 20:
 / SEQUENCE CHARACTERISTICS:
 / LENGTH: 48 base pairs
 / TYPE: nucleic acid
 / STRANDEDNESS: single
 / TOPOLOGY: unknown
 US-08-452-724A-20

Query Match 13.8%; Score 18.2; DB 2; Length 48;
 Best Local Similarity 48.9%; Pred. No. 8.8e+03;

Matches 23; Conservative 8; Mismatches 16; Indels 0; Gaps 0; / NUMBER OF SEQUENCES: 12
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: BROWDY AND NEIMARK
 STREET: 419 Seventh Street, N.W., Suite 300
 CITY: Washington
 STATE: D.C.
 COUNTRY: USA
 ZIP: 20004
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC Compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/602,716A
 FILING DATE: 23-FEB-1996
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/060,560
 FILING DATE: 13-MAY-1993
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: PCT/US94/05545
 FILING DATE: 13-MAY-1994
 ATTORNEY/AGENT INFORMATION:
 NAME: BROWDY, Roger L.
 REGISTRATION NUMBER: 25,618
 REFERENCE/DOCKET NUMBER: FRIEDHOFF-1A
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 202-628-5197
 TELEX/FAX: 202-737-3528
 INFORMATION FOR SEQ ID NO: 8:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 45 base Pairs
 TYPE: nucleic acid
 STRANDEDNESS: Single
 TOPOLOGY: Linear
 MOLECULE TYPE: cDNA
 US-08-602-716A-8

Query Match 13 6%; Score 18; DB 2; Length 45;
 Best Local Similarity 80.8%; Pred. No. 9.9e-03;
 Matches 21; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 74 CTTCGCACTCGGGCTGGATGAGCAGC 99
 Db 29 CTTGTGCCCCAGGTGGATGGATGTC 4

RESULTS 9
 US-09-191-171-1/c
 Sequence 1, Application US/09191171
 ; Patent No. 6149909
 ; Patent No. 6149909 6143294
 GENERAL INFORMATION:
 ; APPLICANT: SCOTT, Hamish S.
 ; APPLICANT: ANSON, Donald S.
 ; APPLICANT: OREBORN, Annette M.
 ; APPLICANT: NELSON, Paul V.
 ; APPLICANT: CLEMENTS, Peter R.
 ; APPLICANT: MORRIS, Charles P.
 ; APPLICANT: HOWOOD, John J.
 ; TITLE OF INVENTION: SYNTHETIC ALPHA-L-IDURONIDASE AND GENETIC
 ; TITLE OF INVENTION: SEQUENCES ENCODING SAME
 ; NUMBER OF SEQUENCES: 7
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: SCULLY SCOTT MURPHY & PRESSER
 ; STREET: 400 Garden City Plaza
 ; CITY: Garden City
 ; STATE: New York
 ; COUNTRY: USA
 ; ZIP: 11530
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk

RESULT 8
 US-08-602-716A-8/c
 Sequence 8, Application US/08602716A
 ; GENERAL INFORMATION:
 ; APPLICANT: FRIEDHOFF, Arnold J.
 ; APPLICANT: BASHAM, Daryl A.
 ; APPLICANT: MILLER, Jeanette C.
 ; TITLE OF INVENTION: PSYCHOSES PROTECTING NUCLEIC ACID,
 ; PEPTIDES, COMPOSITIONS AND METHODS OF USE
 ; TITLE OF INVENTION:

COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/191,171
FILING DATE:
CLASSIFICATION:
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 08/494,104
FILING DATE: 23-JUN-1995
APPLICATION NUMBER: AU PK9490/91
FILING DATE: 14-NOV-1991
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: AU PK9490/91
FILING DATE: 12-NOV-1992
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 08/084,254
FILING DATE: 07-JUL-1993
ATTORNEY/AGENT INFORMATION:
NAME: DIGIGLIO, Frank S.
REGISTRATION NUMBER: 31,346
REFERENCE/DOCKET NUMBER: 89782
TELECOMMUNICATION INFORMATION:
TELEPHONE: 516-742-4343
TELEFAX: 516-742-4366
TELEX: 230 901 SANS UR
SEQUENCE CHARACTERISTICS:
LENGTH: 47 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: Oligonucleotide DNA
US-09-191-171-1

RESULT 10
US-09-385-707-1/C
Sequence 1, Application US/09385707
Patent No. 6238662
GENERAL INFORMATION:
APPLICANT: SCOTT, Hamish S.
APPLICANT: ANSON, Donald S.
APPLICANT: ORSBORN, Annette M.
APPLICANT: NELSON, Paul V.
APPLICANT: CLEMENTS, Peter R.
APPLICANT: MORRIS, Charles P.
APPLICANT: HOPWOOD, John J.
TITLE OF INVENTION: SYNTHETIC ALPHA-L-IDURONIDASE AND GENETIC
TITLE OF INVENTION: SEQUENCES ENCODING SAME
NUMBER OF SEQUENCES: 7
CORRESPONDENCE ADDRESS:
ADDRESSEE: SCULLY SCOTT MURPHY & PRESSER
STREET: 400 Garden City Plaza
CITY: Garden City
STATE: New York
COUNTRY: USA
ZIP: 11530

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/191,171
FILING DATE: 13-NOV-1998
APPLICATION NUMBER: US 08/494,104
FILING DATE: 23-JUN-1995
APPLICATION NUMBER: AU PK9490/91
FILING DATE: 14-NOV-1991
APPLICATION NUMBER: AU PCT/AU92/00611
FILING DATE: 12-NOV-1992
APPLICATION NUMBER: US 08/084,254
FILING DATE: 07-JUL-1993

ATTORNEY/AGENT INFORMATION:
NAME: Polalsky, Ann R.
REGISTRATION NUMBER: 34,697
TELECOMMUNICATION INFORMATION:
TELEPHONE: 516-832-7572
TELEFAX: 516-832-7555
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 47 base Pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: Linear
MOLECULE TYPE: Oligonucleotide DNA
SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-09-639-1696-1

Query Match 13.6%; Score 18; DB 4; Length 47;
Best Local Similarity 64.3%; Pred. No. 1e+04;
Matches 27; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

Qy 61 AGCTCTGGGGCTGCACTCGGGCTGGATGGAGGCTCG 102
Db 47 ACGTGTCGAACTGTCGTGCTGGCTGGTCCAGGTCG 6

RESULT 12
US-09-581-105-9/c
Sequence 9, Application US/09581105
Patent No. 6603062
GENERAL INFORMATION:
APPLICANT: Schmidt, et al.
TITLE OF INVENTION: Method For Producing Transgenic Plants With Modified 5-Aminolevulinic Acid Biosynthesis, And Method For Identifying 5-Aminolevulinic Acid
TITLE OF INVENTION: Effectors
FILE REFERENCE: 51413-3827
CURRENT APPLICATION NUMBER: US/09/581,105
CURRENT FILING DATE: 2000-08-31
PRIOR APPLICATION NUMBER: PCT/EP98/08028
PRIOR FILING DATE: 1998-12-10
PRIOR APPLICATION NUMBER: GERMANY 197 54 929.2
PRIOR FILING DATE: 1997-12-10
NUMBER OF SEQ ID NOS: 10
SOFTWARE: PatentIn version 3.0
SEQ ID NO 9
LENGTH: 32
TYPE: DNA
ORGANISM: Artificial
FEATURE:
OTHER INFORMATION: primer ALAS1
US-09-581-105-9

Query Match 13.4%; Score 17.4; DB 4; Length 32;
Best Local Similarity 77.8%; Pred. No. 1.4e+04;
Matches 21; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 35 GGTTGACTTGAGGCCCTGATGCACCA 61
Db 30 GTGCCAGATTGAGTCATGCACCA 4

RESULT 13
5240847-33
; Patent No. 5240847
; APPLICANT: HECKL, KONRAD; SPEVAK, WALTER; OSTERMANN, ELINBORG;
; ZOPHEL, ANDREAS; KRYSZEK, EDELBRAUD; MAUER-FOY, INGRID;
; WICHE-CASTANON, MARIA J.; STRATOWA, CHRISTIAN; HAUTMANN, RUDOLF;
; TITLE OF INVENTION: HUMAN MANGANESE SUPEROXIDE DISMUTASE
; (HMN-SOD)
; NUMBER OF SEQUENCES: 34
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/167,261
; FILING DATE: 11-MAR-1988

; SEQ ID NO:33:
; LENGTH: 40
; 5240847-33
Query Match 13.2%; Score 17.4; DB 6; Length 40;
Best Local Similarity 68.6%; Pred. No. 1.4e+04;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy 3 ATGCATCATCTGCCAGGACCTGCTGCAAGACTGCG 37
Db 1 AAGCATCTTGGCAAAGCTGCCATAGCTGCAAGCTACG 35

RESULT 14
PCT-US95-13975-35/c
; Sequence 35, Application PC/TUS9513975
; GENERAL INFORMATION:
; APPLICANT: Cochran, Mark D.
; APPLICANT: McDonell, Michael W.
; TITLE OF INVENTION: Recombinant Feline Herpes virus
; NUMBER OF SEQUENCES: 73
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: John P. White
; STREET: 1185 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM 330 466 DX2
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/13975
; FILING DATE: 26-OCT-1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/329,883
; FILING DATE: 26-OCT-1994
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: White, John P.
; REGISTRATION NUMBER: 28,678
; REFERENCE/DOCKET NUMBER: 39118-PCT
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212)278-0400
; TELEFAX: (212)391-0525
; INFORMATION FOR SEQ ID NO: 35:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 46 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: Human cytomegalovirus; feline leukemia virus
; PCT-US95-13975-35

Query Match 13.0%; Score 17.2; DB 5; Length 46;
Best Local Similarity 65.8%; Pred. No. 1.7e+04;
Matches 25; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

Qy 82 TCGGGCTGATGAGGCGTCGCGCCCTGTCCTACCTG 119
Db 41 TCGGGCCCATGATGCGATCCATGGTCCGGTGTCTATG 4

RESULT 15
5196308-1/c
; Patent No. 5196308

; APPLICANT: NEPON, GERALD T./NEPON, BARBARA S.
; TITLE OF INVENTION: METHODS FOR IDENTIFYING THE DQW3 2
; ALLELE ASSOCIATED WITH INCREASED RISK OF INSULIN-DEPENDENT
; DIABETES MELLITUS
; NUMBER OF SEQUENCES: 2
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/325,058
; FILING DATE: 13-MAR-1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 745,321.
; FILING DATE: 14-JUN-1985
; SEQ ID NO:1:
; LENGTH: 46
5196308-1

Query Match 13.0%; Score 17.2; DB 6; Length 46;
Best Local Similarity 73.3%; Pred. No. 1.7e+04;
Matches 22; Conservative 0; Mismatches 8; Indels 0; Gaps 0;
QY 87 CTGGATGGAGCGCTGCTGCCGTGTCCTAC 116
Db 30 CTGGATGGAGATGTCATGTGGCTCC 1

Search completed: May 26, 2004, 09:20:41
Job time : 26.4982 secs

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OM nucleic - nucleic search, using sw model

Run on: May 26, 2004, 05:41:55 ; Search time 576.198 Seconds
(without alignments)
1041.142 Million cell updates/sec

Title: US-10-048-046-1_COPY_997_1128

Perfect score: 132

Sequence: 1 acatgcattcatctgcaggaa.....ctacatgccccgtgtcccggtg 132

Scoring Table: IDENTITY NUC GapOp 10.0 , GapExt 1.0

Searched: 2953838 seqs, 2272363821 residues

Total number of hits satisfying chosen parameters: 1612472

Minimum DB seq length: 0

Maximum DB seq length: 50

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing First 45 summaries

Database : Published Applications NA:
 1: /cgn2/6/podata/1/pubnra/US07_PUBCOMB.seq:
 2: /cgn2/6/podata/1/pubnra/PCT_NNEW_PUB.seq:
 3: /cgn2/6/podata/1/pubnra/US06_NNEW_PUB.seq:
 4: /cgn2/6/podata/1/pubnra/US05_PUBCOMB.seq:
 5: /cgn2/6/podata/1/pubnra/US07_NNEW_PUB.seq:
 6: /cgn2/6/podata/1/pubnra/PCFTUS_PUBCOMB.seq:
 7: /cgn2/6/podata/1/pubnra/US08_NNEW_PUB.seq:
 8: /cgn2/6/podata/1/pubnra/US08_PUBCOMB.seq:
 9: /cgn2/6/podata/1/pubnra/US09_PUBCOMB.seq:
 10: /cgn2/6/podata/1/pubnra/US07_PUBCOMB.seq:
 11: /cgn2/6/podata/1/pubnra/US09_PUBCOMB.seq:
 12: /cgn2/6/podata/1/pubnra/US09_NNEW_PUB.seq:
 13: /cgn2/6/podata/1/pubnra/US09_NNEW_PUB.seq:
 14: /cgn2/6/podata/1/pubnra/US10A_PUBCOMB.seq:
 15: /cgn2/6/podata/1/pubnra/US10B_PUBCOMB.seq:
 16: /cgn2/6/podata/1/pubnra/US10C_PUBCOMB.seq:
 17: /cgn2/6/podata/1/pubnra/US10_NNEW_PUB.seq:
 18: /cgn2/6/podata/1/pubnra/US60_NNEW_PUB.seq:
 19: /cgn2/6/podata/1/pubnra/US60_PUBCOMB.seq:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Length	Match Length	DB ID	Description
1	20.2	15.3	47	16	US-10-349-143-2229 Sequence 2729, Ap
c 2	19.2	14.5	47	15	US-10-349-044A-18 Sequence 18, App1
c 3	19	14.4	47	15	US-10-097-044A-15 Sequence 15, App1
4	18.2	13.8	48	15	US-10-371-404-20 Sequence 20, App1
5	18	13.6	50	16	US-10-131-877-1070 Sequence 1070, App1
c 6	17.8	13.5	44	15	US-10-076-802-81 Sequence 81, App1
c 7	17.8	13.5	44	15	US-10-076-802-110 Sequence 110, App1
c 8	17	13.5	44	15	US-10-076-802-111 Sequence 111, App1
c 9	17	13.5	44	16	US-10-076-169-81 Sequence 81, App1
c 10	17.8	13.5	44	16	US-10-367-169-110 Sequence 110, App1
c 11	17.8	13.5	44	16	US-10-367-169-111 Sequence 111, App1
c 12	17.4	13.2	32	13	US-10-358-568-9 Sequence 9, App1
c 13	17.4	13.2	49	15	US-10-216-054A-14 Sequence 14, App1
c 14	17.4	13.2	49	15	US-10-324-184-14 Sequence 14, App1

ALIGNMENTS

SEQ ID NO	SEQ ID NOS	NUMBER OF SEQ ID NOS	SEQ ID NO 2729	LENGTH	TYPE: DNA
US-10-349-143-2729	Sequence 2729, Application US/10349143	1	US-10-349-143-2729	47	Organism: Homo Sapiens
	; Publication No. US20040005581A1				Feature:
	; GENERAL INFORMATION:				Name/Key: allele
	; APPLICANT: Cohen, Daniel				Location:
	; APPLICANT: Blumenthal, Marta				Other Information:
	; PRIORITY APPLICATION NUMBER: US-10-349-0422, 978				PRIORITY FILING DATE: 1999-10-20
	; PRIORITY APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 09/298, 850				PRIOR FILING DATE: EARLIER FILING DATE: 1999-04-21
	; PRIORITY APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/109, 732				PRIOR FILING DATE: EARLIER FILING DATE: 1998-11-23
	; PRIORITY APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/082, 614				PRIOR FILING DATE: EARLIER FILING DATE: 1998-04-21
	; NUMBER OF SEQ ID NOS: 11796				NUMBER OF SEQ ID NOS: 11796
	; LENGTH: 47				LENGTH: 47

RESULTS

RESULT	1
US-10-349-143-2729	; Sequence 2729, Application US/10349143
	; Publication No. US20040005581A1
	; GENERAL INFORMATION:
	; APPLICANT: Cohen, Daniel
	; APPLICANT: Blumenthal, Marta
	; PRIORITY APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 09/298, 850
	; PRIORITY APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/109, 732
	; PRIORITY APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/082, 614
	; CURRENT APPLICATION NUMBER: US/10/349.143
	; CURRENT FILING DATE: 2003-01-21
	; PRIORITY APPLICATION NUMBER: US-10-349-2729
	; PRIORITY FILING DATE: 1999-10-20
	; PRIORITY APPLICATION NUMBER: EARLIER FILING DATE: 1999-04-21
	; PRIORITY APPLICATION NUMBER: EARLIER FILING DATE: 1998-11-23
	; PRIORITY APPLICATION NUMBER: EARLIER FILING DATE: 1998-04-21
	; NUMBER OF SEQ ID NOS: 11796
	; LENGTH: 47

SUMMARY

Query Match Score 20.2 ; DB 16 ; Length 47;
Best Local Similarity 65.1% ; Prd. No. 5.7e+03 ;
Matches 28 ; Conservative 1 ; Mismatches 14 ;
Indels 0 ; Gaps 0 ;

QY 17 AGGACCTGTGCAAGTCGCTGAGTGCAGCGCTGATGCA 59

Db 5 AGGTCTGAGCAGTATGGYACCGTTGAAAGCTCCATCCA 47

RESULT 2
US-10-097-044A-18/c
Sequence 18, Application US/1097044A

Publication No. US20030143220A1

GENERAL INFORMATION:

APPLICANT: Capon, Daniel J.

TITLE OF INVENTION: Adheson Variants

NUMBER OF SEQUENCES: 25

CORRESPONDENCE ADDRESS:

ADDRESSEE: Genentech, Inc.

STREET: 460 Point San Bruno Blvd

CITY: South San Francisco

STATE: California

ZIP: 94080

COMPUTER READABLE FORM:

MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: patin (Genentech)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/10/097,044A

FILING DATE: 28 MAY 2002

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/08/457,918

FILING DATE: 1-JUN-1995

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: patin (Genentech)

ATTORNEY/AGENT INFORMATION:

APPLICATION NUMBER: 08/216311

FILING DATE: 26-AUG-1994

APPLICATION NUMBER: 07/936190

FILING DATE: 26-AUG-1992

APPLICATION NUMBER: 07/842777

FILING DATE: 18-FEB-1992

APPLICATION NUMBER: 07/250785

FILING DATE: 28-SEP-1988

APPLICATION NUMBER: 07/104329

FILING DATE: 02-OCT-1987

ATTORNEY/AGENT INFORMATION:

NAME: Kubinec, Jeffrey S.

REGISTRATION NUMBER: 36,575

REFERENCE/DOCKET NUMBER: P0444P1C3

TELECOMMUNICATION INFORMATION:

TELEPHONE: 415/225-8228

TELEFAX: 415/952-9881

INFORMATION FOR SEQ ID NO: 15:

SEQUENCE CHARACTERISTICS:

LENGTH: 47 bases

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

SEQUENCE DESCRIPTION: SEQ ID NO: 15:

US-10-097-044A-15

INFORMATION FOR SEQ ID NO: 18:

SEQUENCE CHARACTERISTICS:

LENGTH: 47 bases

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

SEQUENCE DESCRIPTION: SEQ ID NO: 18:

US-10-097-044A-18

INFORMATION FOR SEQ ID NO: 19:

SEQUENCE CHARACTERISTICS:

LENGTH: 47 bases

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

SEQUENCE DESCRIPTION: SEQ ID NO: 19:

US-10-097-044A-19

INFORMATION FOR SEQ ID NO: 20:

SEQUENCE CHARACTERISTICS:

LENGTH: 47 bases

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

SEQUENCE DESCRIPTION: SEQ ID NO: 20:

US-10-097-044A-20

Db TITLE OF INVENTION: Adheson Variants

NUMBER OF SEQUENCES: 25

CORRESPONDENCE ADDRESS:

ADDRESSEE: Genentech, Inc.

STREET: 460 Point San Bruno Blvd

CITY: South San Francisco

STATE: California

ZIP: 94080

COMPUTER READABLE FORM:

MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: patin (Genentech)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/10/097,044A

FILING DATE: 28 MAY 2002

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/08/457,918

FILING DATE: 1-JUN-1995

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: patin (Genentech)

ATTORNEY/AGENT INFORMATION:

APPLICATION NUMBER: 08/216311

FILING DATE: 26-AUG-1994

APPLICATION NUMBER: 07/936190

FILING DATE: 26-AUG-1992

APPLICATION NUMBER: 07/842777

FILING DATE: 18-FEB-1992

APPLICATION NUMBER: 07/250785

FILING DATE: 28-SEP-1988

APPLICATION NUMBER: 07/104329

FILING DATE: 02-OCT-1987

ATTORNEY/AGENT INFORMATION:

NAME: Kubinec, Jeffrey S.

REGISTRATION NUMBER: 36,575

REFERENCE/DOCKET NUMBER: P0444P1C3

TELECOMMUNICATION INFORMATION:

TELEPHONE: 415/225-8228

TELEFAX: 415/952-9881

INFORMATION FOR SEQ ID NO: 15:

SEQUENCE CHARACTERISTICS:

LENGTH: 47 bases

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

SEQUENCE DESCRIPTION: SEQ ID NO: 15:

US-10-097-044A-15

INFORMATION FOR SEQ ID NO: 18:

SEQUENCE CHARACTERISTICS:

LENGTH: 47 bases

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

SEQUENCE DESCRIPTION: SEQ ID NO: 18:

US-10-097-044A-18

INFORMATION FOR SEQ ID NO: 19:

SEQUENCE CHARACTERISTICS:

LENGTH: 47 bases

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

SEQUENCE DESCRIPTION: SEQ ID NO: 19:

US-10-097-044A-19

INFORMATION FOR SEQ ID NO: 20:

SEQUENCE CHARACTERISTICS:

LENGTH: 47 bases

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

SEQUENCE DESCRIPTION: SEQ ID NO: 20:

US-10-097-044A-20

INFORMATION FOR SEQ ID NO: 21:

SEQUENCE CHARACTERISTICS:

LENGTH: 47 bases

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

SEQUENCE DESCRIPTION: SEQ ID NO: 21:

US-10-097-044A-21

INFORMATION FOR SEQ ID NO: 22:

SEQUENCE CHARACTERISTICS:

LENGTH: 47 bases

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

SEQUENCE DESCRIPTION: SEQ ID NO: 22:

US-10-097-044A-22

INFORMATION FOR SEQ ID NO: 23:

SEQUENCE CHARACTERISTICS:

LENGTH: 47 bases

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

SEQUENCE DESCRIPTION: SEQ ID NO: 23:

US-10-097-044A-23

INFORMATION FOR SEQ ID NO: 24:

SEQUENCE CHARACTERISTICS:

LENGTH: 47 bases

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

SEQUENCE DESCRIPTION: SEQ ID NO: 24:

US-10-097-044A-24

INFORMATION FOR SEQ ID NO: 25:

SEQUENCE CHARACTERISTICS:

LENGTH: 47 bases

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

SEQUENCE DESCRIPTION: SEQ ID NO: 25:

US-10-097-044A-25

INFORMATION FOR SEQ ID NO: 26:

SEQUENCE CHARACTERISTICS:

LENGTH: 47 bases

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

SEQUENCE DESCRIPTION: SEQ ID NO: 26:

US-10-097-044A-26

INFORMATION FOR SEQ ID NO: 27:

SEQUENCE CHARACTERISTICS:

LENGTH: 47 bases

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

SEQUENCE DESCRIPTION: SEQ ID NO: 27:

US-10-097-044A-27

INFORMATION FOR SEQ ID NO: 28:

SEQUENCE CHARACTERISTICS:

LENGTH: 47 bases

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

SEQUENCE DESCRIPTION: SEQ ID NO: 28:

US-10-097-044A-28

INFORMATION FOR SEQ ID NO: 29:

SEQUENCE CHARACTERISTICS:

LENGTH: 47 bases

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

SEQUENCE DESCRIPTION: SEQ ID NO: 29:

US-10-097-044A-29

INFORMATION FOR SEQ ID NO: 30:

SEQUENCE CHARACTERISTICS:

LENGTH: 47 bases

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

SEQUENCE DESCRIPTION: SEQ ID NO: 30:

US-10-097-044A-30

INFORMATION FOR SEQ ID NO: 31:

SEQUENCE CHARACTERISTICS:

LENGTH: 47 bases

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

SEQUENCE DESCRIPTION: SEQ ID NO: 31:

US-10-097-044A-31

INFORMATION FOR SEQ ID NO: 32:

SEQUENCE CHARACTERISTICS:

LENGTH: 47 bases

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

SEQUENCE DESCRIPTION: SEQ ID NO: 32:

US-10-097-044A-32

INFORMATION FOR SEQ ID NO: 33:

SEQUENCE CHARACTERISTICS:

LENGTH: 47 bases

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

SEQUENCE DESCRIPTION: SEQ ID NO: 33:

US-10-097-044A-33

INFORMATION FOR SEQ ID NO: 34:

SEQUENCE CHARACTERISTICS:

LENGTH: 47 bases

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

SEQUENCE DESCRIPTION: SEQ ID NO: 34:

US-10-097-044A-34

INFORMATION FOR SEQ ID NO: 35:

SEQUENCE CHARACTERISTICS:

LENGTH: 47 bases

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

SEQUENCE DESCRIPTION: SEQ ID NO: 35:

US-10-097-044A-35

INFORMATION FOR SEQ ID NO: 36:

SEQUENCE CHARACTERISTICS:

LENGTH: 47 bases

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

SEQUENCE DESCRIPTION: SEQ ID NO: 36:

US-10-097-044A-36

INFORMATION FOR SEQ ID NO: 37:

SEQUENCE CHARACTERISTICS:

LENGTH: 47 bases

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

SEQUENCE DESCRIPTION: SEQ ID NO: 37:

US-10-097-044A-37

INFORMATION FOR SEQ ID NO: 38:

SEQUENCE CHARACTERISTICS:

LENGTH: 47 bases

TYPE: nucleic acid

GENERAL INFORMATION:
 APPLICANT: Gray, Jeff
 APPLICANT: Buechler, Joe
 APPLICANT: Veeramaliu, Uday K
 TITLE OF INVENTION: EURARYOTIC SIGNAL SEQUENCES FOR PROKARYOTIC EXPRESSION
 FILE REFERENCE: 014007-00470005
 CURRENT APPLICATION NUMBER: US/10/076, 802
 CURRENT FILING DATE: 2002-02-13
 SOFTWARE: SEQ ID NOS: 113
 SOFTWARE: PatentIn Ver. 2.1
 SEQ ID NO: 111
 LENGTH: 44
 TYPE: DNA
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Description of Artificial Sequence: Murine 5'
 OTHER INFORMATION: Heavy Chain Specific PCR Primer 526
 US-10-076-802-111
 Query Match 13.5%; Score 17.8; DB 15; Length 44;
 Best Local Similarity 75.9%; Pred. No. 3.4e+04;
 Matches 22; Conservative 0; Mismatches 7; Indels 0; Gaps 0;
 Qy 20 ACCCTGCTGAGCTGCGTGAAGTTGCAG 48
 Db 35 ACCACTGACGTGGCTTGCCCTGAGCCTGAG 7
 RESULT 11
 US-10-367-169-111/c
 Sequence 111, Application US/10367169
 Publication No. US20030228660A1
 GENERAL INFORMATION:
 APPLICANT: Gray, Jeff
 APPLICANT: Buechler, Joe
 APPLICANT: Veeramaliu, Uday Kumar
 TITLE OF INVENTION: EURARYOTIC SIGNAL SEQUENCES FOR POLYPEPTIDE EXPRESSION AND POLYPE
 FILE REFERENCE: 11055US02
 CURRENT APPLICATION NUMBER: US/10/367,169
 CURRENT FILING DATE: 2003-02-13
 PRIOR APPLICATION NUMBER: 10/076, 802
 PRIOR FILING DATE: 2002-02-13
 SEQ ID NO: 113
 LENGTH: 44
 SOFTWARE: PatentIn Ver. 2.1
 SEQ ID NO: 81
 LENGTH: 44
 TYPE: DNA
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Description of Artificial Sequence: Murine 5'
 OTHER INFORMATION: Heavy Chain Specific PCR Primer 188
 US-10-367-169-81
 Query Match 13.5%; Score 17.8; DB 16; Length 44;
 Best Local Similarity 75.9%; Pred. No. 3.4e+04;
 Matches 22; Conservative 0; Mismatches 7; Indels 0; Gaps 0;
 Qy 20 ACCCTGCTGAGCTGCGTGAAGTTGCAG 48
 Db 35 ACCACTGACGTGGCTTGCCCTGAGCCTGAG 7
 RESULT 12
 US-10-458-568-9/c
 Sequence 9, Application US/10458568
 Publication No. US20030204873A1
 GENERAL INFORMATION:
 APPLICANT: Schmidt, et al.
 TITLE OF INVENTION: Method For Producing Transgenic Plants With Modified 5-Aminolevul
 INVENTION: Acid Biosynthesis, And Method For Identifying 5-Aminolevulinic A
 TITLE OF INVENTION: Effectors
 FILE REFERENCE: 514413-3827
 CURRENT APPLICATION NUMBER: US/10/458, 568
 CURRENT FILING DATE: 2003-06-10
 PRIOR APPLICATION NUMBER: US/09/581,105
 TITLE OF INVENTION: DISPLAY LIBRARIES

PRIOR FILING DATE: 2000-08-31
 PRIOR APPLICATION NUMBER: PCT/EP98/08028
 PRIOR FILING DATE: 1998-12-10
 PRIOR APPLICATION NUMBER: GERMANY 197 54 929.2
 PRIOR FILING DATE: 1997-12-24
 NUMBER OF SEQ ID NOS: 10
 SOFTWARE: PatentIn version 3.0
 SEQ ID NO: 9
 LENGTH: 32
 TYPE: DNA
 ORGANISM: Artificial
 FEATURE:
 OTHER INFORMATION: Primer ALAS1
 US-10-458-568-9

Query Match 13.2%; Score 17.4; DB 13; Length 32;
 Best Local Similarity 77.8%; Pred. No. 4.4e+04;
 Matches 21; Conservative 0; Mismatches 6;
 Indels 0; Gaps 0;
 Qy 35 CGGTGAGTTGCAGCCATGGATGCCA 61
 Db 30 GTGCCAGATGTAATGCTGGATGCCA 4

RESULT 13
 US-10-216-054A-14
 Sequence 14, Application US/10216054A
 Publication No. US2003014423A1
 GENERAL INFORMATION:
 APPLICANT: CANCER RESEARCH VENTURES LIMITED
 APPLICANT: AGAMI, Reuven
 APPLICANT: BRUMMELKAMP, Thijn
 TITLE OF INVENTION: EXPRESSION SYSTEM
 FILE REFERENCE: KILBURN1100-1
 CURRENT APPLICATION NUMBER: US/10/216,054A
 CURRENT FILING DATE: 2002-12-19
 PRIOR APPLICATION NUMBER: US 60/377,482
 PRIOR FILING DATE: 2002-05-02
 PRIOR APPLICATION NUMBER: UK 0130955.8
 PRIOR FILING DATE: 2001-12-24
 NUMBER OF SEQ ID NOS: 21
 SOFTWARE: PatentIn version 3.1
 SEQ ID NO: 14
 LENGTH: 49
 TYPE: RNA
 ORGANISM: Artificial sequence
 OTHER INFORMATION: Predicted stem loop transcript
 US-10-216-054A-14

Query Match 13.2%; Score 17.4; DB 15; Length 49;
 Best Local Similarity 57.1%; Pred. No. 4.4e+04;
 Matches 20; Conservative 4; Mismatches 11;
 Indels 0; Gaps 0;
 Qy 83 CGGGCTGGAAATGGAGCGCTCCGCTGCTGCTTACCA 117
 Db 12 CGGGCGGAUTCAAGAGAUCCGGCCGAGUCUGGCC 46

RESULT 14
 US-10-324-184-14
 Sequence 14, Application US/10324184
 Publication No. US20030144239A1
 GENERAL INFORMATION:
 APPLICANT: CANCER RESEARCH VENTURES LIMITED
 APPLICANT: AGAMI, Reuven
 APPLICANT: BRUMMELKAMP, Thijn
 TITLE OF INVENTION: EXPRESSION SYSTEM
 FILE REFERENCE: KILBURN1100-2
 CURRENT FILING DATE: 2002-12-19
 PRIOR APPLICATION NUMBER: US/10/324,184
 PRIOR FILING DATE: 2002-08-09

PRIOR APPLICATION NUMBER: US 60/377,482
 PRIOR FILING DATE: 2002-05-02
 PRIOR APPLICATION NUMBER: UK 0130955.8
 PRIOR FILING DATE: 2001-12-24
 NUMBER OF SEQ ID NOS: 25
 SOFTWARE: PatentIn version 3.1
 SEQ ID NO: 14
 LENGTH: 49
 TYPE: RNA
 ORGANISM: Artificial sequence
 FEATURE:
 OTHER INFORMATION: Sequence of the predicted stem loop transcript Generated from
 US-10-324-184-14

Query Match 13.2%; Score 17.4; DB 15; Length 49;
 Best Local Similarity 57.1%; Pred. No. 4.6e+04;
 Matches 20; Conservative 4; Mismatches 11;
 Indels 0; Gaps 0;
 Qy 83 CGGGCTGGAAATGGAGCGCTCCGCTGCTTACCA 117
 Db 12 CGGGCGGAUTCAAGAGAUCCGGCCGAGUCUGGCC 46

RESULT 15
 US-10-179-826-3
 Sequence 3, Application US/10179826
 Publication No. US20030235827A1
 GENERAL INFORMATION:
 APPLICANT: McKeown, Brian
 TITLE OF INVENTION: Methods and Compositions for Monitoring Primer Extension and Polynucleotide Sequencing
 FILE REFERENCE: 131164US
 CURRENT APPLICATION NUMBER: US/10/179,826
 CURRENT FILING DATE: 2002-06-25
 NUMBER OF SEQ ID NOS: 10
 SOFTWARE: PatentIn version 3.1
 SEQ ID NO: 3
 LENGTH: 22
 TYPE: DNA
 ORGANISM: Artificial sequence
 FEATURE:
 OTHER INFORMATION: Primer - organism matches to Ovis aries
 US-10-179-826-3

Query Match 13.0%; Score 17.2; DB 16; Length 22;
 Best Local Similarity 86.4%; Pred. No. 5e+04;
 Matches 19; Conservative 0; Mismatches 3;
 Indels 0; Gaps 0;
 Qy 8 TCATTCGCCAGAACCTGCTGCA 29
 Db 1 TCATTCGCCAGAACCTGCTGCA 22

Search completed: May 26, 2004, 10:22:40
 Job time : 577.198 secs

www-bio.llnl.gov/bbrp/image/image.html

Trace considered overall poor quality
Seq primer: -40P from Gibco

FEATURES

Source

High quality sequence stop: 1.
Location/Qualifiers
1. .49
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone IMAGE:19785581"
/tissue_type="squamous cell carcinoma"
/lab_host="DE10B"
/clone lib="NCI CGAP_Ebo2"
/note="Organ: esophagus; Vector: pCMV-SPORT6; Site_1:
SalI; Site_2: NotI; Cloned unidirectionally. Primer:
Oligo dT. Average insert size 1.1 kb. Life Technologies
Catalog #: 11502-010"

ORIGIN

Query Match	Score 19.2;	DB 9;	Length 49;	
Best Local Similarity	62.5%;	Pred. No 5e-05;		
Matches	30;	Conservative	Indels	Gaps
Qy	84	GGGCTGGATGAGGCTCTCCGCCCTGTCTACTCGCCCTGCCCCGT	131	0;
Db	48	GGGGGGGGGGATTCTCCCGCGCCCTACTCCCCAGCCCCIT	1	0;

RESULT 2

AZ788565 AZ788565 42 bp DNA linear GSS 16-FEB-2001
DEFINITION 2X0035P14R Mouse 10kb plasmid TUGCM library Mus musculus genomic
clone UGCM035P14 R, genomic survey sequence.

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

Mus musculus (house mouse)
Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 42)

Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,
Islam, H., Longacre, S., Mahmoud, M., Meenin, B., Pedersen, T.,
Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von
Niederhausern, A., and Wright, D., Weiss, R.

Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts

Unpublished (2000)

Contact: Robert B. Weiss

University of Utah Genome Center

University of Utah

Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA

Tel: 801 585 5606

Fax: 801 585 7177

Email: ddunn@genetics.utah.edu

Insert Length: 10000 Std Errr: 0.00

Plate: 0035 row: F column: 14

Seq primer: CACAGCAAAACGTATAACC

Class: Plasmid ends

High quality sequence stop: 42

FEATURES

Source

Query Match	Score 19.1;	DB 9;	Length 50;	
Best Local Similarity	84.0%;	Pred. No. 7.1e+05;		
Matches	21;	Conservative	Indels	Gaps
Qy	107	TGTGTTCTACCTGGCGCTGTCGGT	131	0;

musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (<http://www.Jax.org/resources/documents/dnares/>). The DNA was hydrodynamically sheared at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adapter oligonucleotides were ligated to the blunt ends in high molar excess. The adapter DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (gi|173214|gb|AF129072.1), a copy-number inducible derivative of Plasmid RL. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adapter DNA was annealed to adapter vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

ORIGIN

Query Match	Score 14.2;	DB 28;	Length 42;	
Best Local Similarity	76.7%;	Pred. No. 5.9e+05;		
Matches	23;	Conservative	0; Mismatches	0; Indels
Qy	39	GAGTTGCAGCCCTGGATGACACCTTGCT	68	0;
Db	7	GTGTTGAATCCCTGGATCACGTGATG	36	0;

RESULT 3	AU105739	50 bp mRNA	EST 30-AUG-2001	
LOCUS	AU105739	Sugano Homo sapiens cDNA clone	cdNA clone	
DEFINITION	AU105739	mRNA sequence.		
ACCESSION	AU105739			
VERSION	AU105739.1	GR:13555260		
KEYWORDS	EST,			
SOURCE	Homo sapiens (human)			
ORGANISM	Homo sapiens			
REFERENCE	Suzuki, Y., Taira, H., Tsunoda, T., Mizushima-Shigano, J., Sese, J., Matsumura, T., Butcher, P., Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Primates; Catarrhini; Hominiidae; Homo. 1 (bases 1 to 50);			
AUTHORS	Suzuki, Y., Taira, H., Tsunoda, T., Mizushima-Shigano, J., Sese, J., Matsumura, T., Butcher, P., Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Primates; Catarrhini; Hominiidae; Homo. Hata, H., Ota, T., Ito, T., Tanaka, T., Maruyama, K., Sugano, S., Okubo, K., Sakaki, Y., Nakamura, Y., Suya, A., and Sugano, S.			
TITLE	Diverse transcriptional initiation revealed by fine, large-scale mapping of mRNA start sites			
JOURNAL	EMBO Rep. 2 (5), 388-393 (2001)			
MEDLINE	21270072			
PUBMED	11315929			
COMMENT	Contact: Yutaka Suzuki Department of Virology Institute of Medical Science, University of Tokyo 4-6-1, Shirokanedai, Minato-ku, Tokyo 108-8639, Japan Email: ysuzuki@ims.u-tokyo.ac.jp			
FEATURES	Suruki, Y., Yoshihiko-Nakagawa, X., Maruyama, K., Sugano, A. and Sugano, S. Construction and characterization of a full length-enriched and a 5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).			
Source	Location/Qualifiers			
ORIGIN	/organism="Homo sapiens" /mol_type="mRNA" /db_xref="taxon:9606" /clone=HR01265" /clone_lib="Sugano Homo sapiens cDNA library"			

I and Eco RI sites of the modified pT7T3 vector. mRNA source: 2 pooled kidneys. Library went through one round of normalization. Library constructed by Bento Soares and M. Fatima Bonaldo.

ORIGIN	Query	Match	Score 18.2;	DB 9;	Length 49;
	83	CGGGCTGGATGGAAAGGCTGCTCCCTGTCCTACCTGCC	121		
	Qy	Best Local Similarity	13.8%;	Pred. No. 8	8⁺⁰⁵;
	Db	Matches	66.7%;	Mismatches	0;
		Matches	26;	Indels	0;
			Conservative	Gaps	0
					0
					39
					1

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Muridae; Murinae; Mus.	REFERENCE	JOURNAL
1 ('bases 1 to 50')	AUTHORS	COMMENT
Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C., Islam, H., Longacre, S., Mahmoud, M., Meenem, E., Pedersen, T., Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A. and Wright, D., Weiss, R.	TITLE	Unpublished (2000)
Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts	CONTACT	Robert B. Weiss University of Utah Genome Center University of Utah Rm. 308 Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT

RESULT	7	EST	30-AUG-2001
AU105564/c	AU105564	50 bp mRNA	linear EST
LOCUS	AU105564	Homo sapiens	CDNA library
DEFINITION	COL00322,	Homo sapiens cDNA clone	mRNA sequence.
ACCESSION	AU105564		
VERSION	AU105564.1		
KEYWORDS	EST.		
SOURCE	Homo sapiens (human)		
ORGANISM	Homo sapiens		
Bdukayoza, Matzko; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo. 1 (bases 1 to 50)			
REFERENCE	Suzuki, Y., Taira, H., Tsunoda, T., Mizushima-Sugano, J., Sese, J., Hata, H., Ota, T., Isegai, T., Tanaka, T., Morishita, S., Okubo, K., Sakaki, Y., Nakamura, Y., Suyama, A. and Sugano, S.		
AUTHORS	Diverse transcriptional initiation revealed by fine, large-scale mapping of mRNA start sites		
TITLE	EMBO Rep. 2 (5), 388-393 (2001)		
JOURNAL	212/0072		
MEDLINE	11375929		
PUBMED			

COMMENT
Contact: Yutaka Suzuki
Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minato-ku, Tokyo 108-8639, Japan
Email: suzuki@ims.u-tokyo.ac.jp
Suzuki, Y., Yoshitomo-Nakagawa K., Maruyama, K., Suyama, A., and Sugano, S., Construction and characterization of full length-enriched and a 5'-end-enriched cDNA library. Gene 200 (1-2),

FEATURES	149-156	(1997)
source		Location/Qualifiers
	1..50	/organism="Homo sapiens"
		/mol_type="mRNA"
		/db_xref="Taxon:9606"
		/clone="COLO00322"

ORIGIN	and selected for ampicillin resistance."					
Qy	Query Match Best Local Similarity Matches	13.5%; 75.9%; 22;	Score 17.8; Pred. No. 1.1e+06; Conservative 0; Mismatches	DB 28; Length 50;	Indels 7;	Gaps 0
Ds	34	TGGCTGAGTTGCCAGCCCTGCATGCCAC	62			
Ds	4	TGGCGCCTGTGATGCCATGCCAC	32			

ACCESSION # C4432474
VERSION # AZ432474.1
KEYWORDS # GSS.
SOURCE # Mus musculus (house mouse)
ORGANISM # Mus musculus

ACCESSION AI941380
 VERSION AI941380.1
 KEYWORDS EST.
 SOURCE Glycine max (soybean)

ORGANISM	Glycine max Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophytes; Magnoliophyta; eudicots; core eudicots; rosids; eurosids I; Fabales; Fabaceae; Papilionoideae; Phaseoleae;
REFERENCE AUTHORS	1 (bases 1 to 49) Shoemaker, R., Keim, P., Vodkin, L., Erpelding, J., Coryell, V., Khanna, A., Bolla, B., Marra, M., Hillier, L., Kucaba, T., Martin, J., Becker, C., Wyly, T., Underwood, K., Stepcoski, M., Thaising, B., Allen, M., Bowers, Y., Person, B., Swallier, T., Gibbons, M., Pepe, D., Harvey, N., Schurtz, R., Ritter, E., Kohn, S., Shin, T., Jackson, Y., Cardenas, M., McCann, R., Waterston, R. and Wilson, R.
JOURNAL COMMENT	Unpublished (1999) Contact: Shoemaker R/Public Soybean EST Project Public Soybean EST Project Washington University School of Medicine 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA Tel: 314 286 1800 Fax: 314 286 1810 Email: est@watson.wustl.edu
FEATURES SOURCE	Trace considered overall poor quality Possible reversed clone: similarity on wrong strand This clone is available through: ResGen, Invitrogen Corp. 2130 South Memorial Parkway Huntsville, AL 35801 For further information call: (800)-533-4363 or contact via email: cccu@resgen.com Seq primer: -40RP from Gibco High quality sequence stop: 1. Location/Qualifiers 1..49 organism="Glycine max" mol_type="mRNA" /db_xref="txaxon:3847" /clone=GENOME SYSTEMS CLONE ID: Gm-c1013-453" /tissue_type="whole seedlings, 2-3 week old seedlings, greenhouse grown" /lab_host="XL10-Gold" /clone_lib="Gm-c1013" /note=Vector: pBlueScript II XR; Site 1: EcoRI; Site 2: XbaI; This cDNA library was constructed from mRNA isolated from whole seedlings of 2-3 week old greenhouse grown plants. The cDNA library was prepared using the Stratagene pBlueScript II XR cDNA library construction kit. Complementary DNA was synthesized from mRNA using a primer consisting of a Poly (dt) sequence with a XbaI restriction site. EcoRI adaptors were ligated to the blunt-ended cDNA fragments followed by XbaI digestion. The cDNA fragments were directionally cloned into the EcoRI-XbaI restriction site of the pBlueScript vector. The ligated cDNA fragments were transformed into XL10-Gold host cells. This library was constructed by Dr. Randy Shoemaker and Dr. John Erpelding."
ORIGIN	Query Match Score 17.6; DB 9; Length 49; Best Local Similarity 65.0%; Pred. No. 1.24+06; Matches 26; Conservative 0; Mismatches 14; Indels 0; Gaps 0
Qy	40 AGTTTGAGCCTGTATGCACAGCTCTGGCGCCTTGT
Db	10 ATTGGTTCCTGGAGCTACCTCCTGAGTGCCTGT
RESULT SOURCE	10 BX121674/c LOCUS BX121674 DEFINITION Danio rerio genomic clone DKEY-61M14, genomic survey sequence. ACCESSION BX121674 VERSION GI:27952599 KEYWORDS GSS, Danio rerio (zebrafish) ORGANISM Danio rerio
Eukaryota: Metazoa: Chordata: Craniata: Vertebrata: Euteleostomi: GSS 28-JAN-2000	

REFERENCE	Actinopterygii; Neopterygii; Teleostei; Ostariophysi; Cyprinidae; Danio.	
AUTHORS	1. (bases 1 to 44) Humphray, S.J., Buckle, E. and Durham, J.L.	
TITLE	Direct Submission	
JOURNAL	Submitted (27-JAN-2003) The Sanger Institute, Wellcome Campus, Hinxton, Cambridgeshire, CB10 1SA, UK. E-mail: humquery@sanger.ac.uk Unpublished from the T7 end of BAC 611. This sequence was generated from the T7 end of BAC 611 part of the Danioey BAC library created by R. Plasterk. KeyGene. Further details: http://www.sanger.ac.uk/Projects/D_rerio/ .	
COMMENT		
FEATURES	Location/Qualifiers	
SOURCE	1. .44 /organism="Danio rerio" /mol_type="genomic DNA" /db_xref="txon:7855" /clone=DKEY61M4" /tissue type="Testis" /note="vector pIndigoBAC-5316"	
ORIGIN		
Query Match	13 / 28% Score 17.4; DB 29; Length 44;	
Best Local Similarity	61.8%; Pred. No. 1>3e06;	
Matches	21; Conservative 0; Mismatches 13; Indels 13;	
Qy	76 TGCCTACTGGGCTGGATGGAGCGTGTCCCTGT 109	
Db	41 TGTGCGTCGANNNGTTGNGTGNNGTCCCTCT 8	
RESULT 11		
AZ485794	AZ485794 48 bp DNA linear G	
LOCUS	1M0313K24F Mouse 10kb Plasmid UFGC1M library Mus musculus clone UFGC1M0313K24 F, genomic survey sequence.	
DEFINITION		
ACCESSION	AZ485794	
VERSION	GI:10651939	
KEYWORDS	GSS,	
ORGANISM	Mus musculus (house mouse)	
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; E-	
AUTHORS	Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae;	
VERSION	1. (bases 1 to 48)	
KEYWORDS	Dunn, D., Aoyagi, A., Barber, M., Beacons, T., Duval, B., Islam, H., Longacre, S., Mahmoud, M., Meenah, E., Pedersen, Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederauer, A. and Wright, P., Weiss, R.	
TITLE	Mouse whole genome scaffolding with paired end reads	
JOURNAL	Plasmid inserts	
COMMENT	Plasmid inserts	
COMMENT	Unpublished (2000)	
COMMENT	Contact: Robert B. Weiss	
JOURNAL	University of Utah Genome Center	
COMMENT	Rm. 308, Biomedical Polymers Research Bldg., 20 S. 200	
COMMENT	84112, USA	
COMMENT	Te: 801 585 5606	
COMMENT	Fax: 801 585 7177	
COMMENT	Email: dcunimogenetics.utah.edu	
COMMENT	Insert Length: 10000 Std Error: 0.00	
COMMENT	Place: 0313 row: K Column: 24	
COMMENT	Seq primer: CCTTGTAATAAGGACGCCAGT	
COMMENT	Class: Plasmid ends	
COMMENT	High quality sequence stop: 48.	
FEATURES	Location/Qualifiers	
SOURCE	1. .48 /organism="Mus musculus" /mol_type="genomic DNA" /strat_ref="C57BL/6J" /db_xref="txon:10090" /sex="Male" /lab_host="E. Coli strain XL10-Gold, TI-res-	

cloneLib="Mouse 10kb plasmid UGCLM library"
 cloneNote="vector: PWD24nv; Purified genomic DNA from M.
 musculus C57BL/6J (male) was obtained from the Jackson
 Laboratory Mouse DNA Resource
<http://wwwjax.org/resources/documents/dnareas/>). The DNA
 was sheared by repeated passage through a
 0.015 inch orifice at constant velocity. The sheared DNA
 was blunt end-repaired with T4 DNA Polymerase and T4
 polynucleotide kinase. Adaptor oligonucleotides were
 ligated to the blunt ends in high molar excess. The
 adaptor DNA was purified and size-selected for 9.5 to
 10.5 kb range using preparative agarose gel
 Electrophoresis. Vector DNA was prepared from a derivative
 F PWD42 (911472114 1gb |AP129072.1), a copy-number
 inducible derivative of plasmid R1. The vector was ligated
 with adaptors complementary to the insert adaptors and
 purified. The sheared, adaptored mouse DNA was annealed to
 adaptored vector DNA, and transformed into
 chemically competent E. coli XL10-Gold (Stratagene) cells
 selected for ampicillin resistance."

Mu elements insert preferentially into transcription units. For more information on RescuerMu, go to the web site www.zmmd.bastate.edu/ and follow the links for 'RescuerMu.' Grid H was grown at Berkeley in 2001. DNA was extracted from leaf punches, double digested using BamHI and BglII, and ligated to form circular plasmids. DH10B cells were transformed and then screened on LB plates with ampicillin.

Selected for ampicillin resistance.

(Pharmacia). Library went through one round of normalization to a Cot = 53. Library constructed by Bento Soares and M. Facima Bonaldo. The adult brain RNA was provided by Dr. Donald H. Gillen. Tissue was acquired after death which occurred in consequence of a ruptured aortic aneurysm. RNA was prepared from a pool of tissues representing the following areas of the brain: frontal, parietal, temporal and occipital cortex from the left and right hemispheres, subcortical white matter, basal ganglia, thalamus, cerebellum, midbrain, pons and medulla.

ORIGIN

Query Match 13.0%; Score 17.2; DB 14; Length 46;
Best Local Similarity 65.8%; Pred. No. 1.5e+06;
Matches 25; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

Qy 5 GCATATCAGCCAGAACGCTGCTGACGACTGCCTGAGT 42
Db 44 GGAGCTTCAGGACTGATGAGAGCTGGCCAGT 7

RESULT 14

GB805551/c LOCUS CS805551 49 bp DNA linear GSS 10-NOW-2003
DEFINITION 1118050E02-2EL.y1 1118 - Rescuemu Grid S Zea mays genomic, genomic
survey sequence.

ACCESSION CS805551
VERSION CS805551.1
COMMENT GI:38241970

KEYWORDS SOURCE

Zea mays

ORGANISM Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; PACCD
Clade: Panicoidea; Andropogoneae; Zea.
REFERENCE 1 (bases 1 to 49)

AUTHORS Walbot,V.

TITLE Naize genomic sequences found using engineered Rescuemu transposon

JOURNAL Unpublished (2001)

COMMENT Contact: Walbot V

Department of Biological Sciences
Stanford University
350 California Ave, Palo Alto, CA 94304, USA
Tel: 650 723 2227
Fax: 650 725 8221
Email: walbot@stanford.edu

Possible ligation site of ends cut by 2 different endonucleases.
Reverse complemented post-ligation sequence from source sequence.
Plate: 111806 Row: 36
Class: transposon-tagged.

FEATURES source

1 49
Location/Qualifiers
/organism="Zea mays"
/mol_type="genomic DNA"
/cultivar="mixed background W23/A188/B73"
/db_xref="taxon:4577"
/tissue_type="leaf"
/dev_stage="adult"
/lab_host="DH10B"
/clone_lib="1118 - Rescuemu Grid S"

/notes="Organ: leaf; Vector: Rescuemu (engineered from plasmid backbone); Site 1: BamHI; Site 2: BglII; Rescuemu is a 4.9 kb, modified maize Mu transposon designed to allow plasmid rescue from total genomic DNA. Mu elements insert preferentially into transcription units. For more information on Rescuemu, go to the web site 'www.zmdb.iastate.edu' and follow the links for 'Rescuemu'. Grid S was grown at San Diego in 2002. DNA was extracted from leaf strips, double digested using BamHI and BglII, and ligated to form circular plasmid. DH10B cells were transformed and then screened on LB plates with ampicillin."

ORIGIN

Query Match 13.0%; Score 17.2; DB 29; Length 49;
Best Local Similarity 73.3%; Pred. No. 1.5e+06;
Matches 22; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

Qy 23 TGTCGAGGACTCGTGAGTTGCACCT 52
Db 34 TGAGCTGAGGTGATGGCACT 5

RESULT 15

AU105249 LOCUS AU105249 Sugano Homo sapiens cDNA library Homo sapiens cDNA clone
DEFINITION HRC05540 mRNA sequence.

ACCESSION AU105249
VERSION AU105249.1
KEYWORDS EST.
SOURCE Homo sapiens (human)

ORGANISM Mammalia; Eutheria; Chordata; Craniata; Vertebrata; Euteleostomi; Primates; Catarrhini; Hominoidea; Homo.

REFERENCE 1 (bases 1 to 50)

Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata,H., Ota,R., Isogai,T., Tanaka,T., Morishita,S., Okubo,K., Sakaki,Y., Nakamura,Y., Sugama,A., and Sugano,S.

Diverse transcriptional initiation revealed by fine, large-scale mapping of mRNA start sites

EMBO Rep. 2 (5), 388-393 (2001)

JOURNAL MEDLINE 21220072

PUBMED 11375929

COMMENT

Contact: Yutaka Suzuki
Department of Virology
Institute of Medical Science, University of Tokyo

4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan

Email: yuzuki@ims.u-tokyo.ac.jp
Suzuki,Y., Yoshitomo-Nakagawa,K., Maruyama,K., Sugano,S., Construction and characterization of a full length-enriched and a 5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).

FEATURES FEATURES

source

1 50

/organism="Homo sapiens"

/mol_type="mRNA"

/db_xref="taxon:9606"

/clone_id="HRC05540"

/clone_lib="Sugano Homo sapiens cDNA library"

ORIGIN

Query Match 13.0%; Score 17.2; DB 9; Length 50;
Best Local Similarity 60.9%; Pred. No. 1.6e+06;
Matches 28; Conservative 0; Mismatches 18; Indels 0; Gaps 0;

Qy 40 AGTTGGAGCCCTGATGCCACGTTCTGGCGGTGTTGCTACTCGG 85
Db 1 AGTTGGAGCCCTGATGCCACGTTCTGGCGGTGTTGCTACTCGG 46

Search completed: May 26, 2004, 09:17:48
Job time : 919.382 secs